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RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

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U.S. AIR FORCE SCIENTIFIC RESEARCH (AFSC)

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QUARTERLY STATUS REPORT

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RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

APRIL 1989

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Project Manager	Sgt. [Signature]
Dist.	A-1



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KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University, Company, etc., at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N Indicates a new research effort.

- R Indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = Indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATED - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

RESEARCH PROPOSAL
QUARTERLY STATUS REPORT

APRIL 1989

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BOLLING AFB, DC 20332-6448
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PART I

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - "A" = ACCEPTED, "D" = DECLINED, "W" = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ALFA ENGINEERING, INC.	HEERMANN	PHILIP	D	89-NE-122	GILES	
AMTEC ENGINEERING INC	IMLAY	SCOTT	T	89-NA-100	SAKELL	
ACCELERATOR TECHNOLOGY CORP.	ARNOWITZ	YOUNG IY		89-NP-127	BARKER	
ACCOLINK CORP	ALISOBHANI	JALAL	C	89-NM-298	WAKSMAN	
ADVANCED COMPOSITE ENGINEERING, INC.	SUN				AMOS	
ADVANCED FUEL RESEARCH INC.	SERIO	MICHAEL	T	89-NA-167	TISMKOFF	
ADVANCED MATERIALS DESIGN, INC.	KULSHRESTHA	ALOK	K	89-NA-163	HARITOS	
ADVANCED OPTICAL SYSTEMS	HARTMAN	R		89-NE-113	GILES	
ADVANCED PHYSICS APPLICATIONS CO.	DINES	EUGENE	L	89-NP-135	PERRIEN	
ADVANCED PROJECTS RESEARCH INC	HUMPHREY	J		89-NA-156	TISMKOFF	
ADVANCED SCIENCE & COMPUTER INNOVATIONS,	PEPPER	DARRELL	J	89-NA-125	HELIN	
AEDAR CORPORATION	HSU	JANG-YU		89-NP-117	SCHLOSSBER	
AEROCHEM RESEARCH LABORATORIES INC	FABUNPI	JAMES	A		AMOS	
AEROCHEM RESEARCH INC	GERMAN	CHARLES	H	89-NA-192	TISMKOFF	
AERODYNE RESEARCH INC	ANAHEN	KURT		89-NA-151	TISMKOFF	
AEROMETRICS, INC.	PUTNAM	ROGER	O	89-NA-150	LITTJON	
AEROSPACE CORPORATION	STINESPRING	CHARTER	D	89-NE-075	WITT	
AEROSPACE MEDICAL DIVISION	BACHMAD	WILLIAM	O	89-NA-145	BIRKAN	
AEROSPACE MEDICAL RESEARCH LABORATORY	SEITING	E		89-NA-152	TISMKOFF	
AIR FORCE INSTITUTE OF TECHNOLOGY	SYAGE	JACK	J	89-NA-190	TISMKOFF	
AIR FORCE WEAPONS LAB	BLRTON	RUSSELL	A	89-NP-039	KELLEY	
ALABAMA CRYOGENIC ENGINEERING, INC.	BACHERT	ROBERT	F	89-NL-097	FREGLY	
ALADAR STOLMAR	PALAICHTO	ANTHONY	F	89-NL-083	DISMUKES	
ALBION INSTRUMENTS	BURNETTE	BURNETTE	N	89-NA-200	AMOS	
ALMATECH	LOPEZ	JO ANN		89-NA-098	BOYCE	
ALPHA LAB	SEAL	MARK		89-NA-097	SAKELL	
AMERICAN MATHEMATICAL SOCIETY	HENDRICKS	JOHN	A	89-NE-147	GILES	
AMERICAN RESEARCH CORP OF VIRGINIA	STOLMAR	ALADAR	B	89-NP-087	SMITH	
AMHERST SYSTEMS, INC.	VAN WAGENEN	RICHARD	A	89-NA-144	BIRKAN	
ANALYTICAL SERVICES & MATERIALS INC	ACCRJAN	ALEXANDER	S	89-NA-126	KELLEY	
ANALYTICON CORP.	LEE	WILLIAM	B	89-NP-123	SAKELL	
ANALYTICON CORP.	MAXWELL	JAMES	D	89-NM-327	BARKER	
ANALYTICON CORP.	NIIMURA	MASSANOBU	G	89-NE-079	NACHMAN	
ANALYTICON CORP.	SARRAFZADEH	ADEL		89-NE-080	CERVERY	
ANALYTICON CORP.	WYGANT	R		89-NE-073	WITT	
ANALYTICON CORP.	SONI	SOM	R	89-NC-217	WITT	
ANALYTICON CORP.	BYKHOVSKY	VAL		89-NE-130	MATUSZKO	
ANALYTICON CORP.	V.C.			89-NC-136	GILES	
ANALYTICON CORP.	GEORGE			89-NC-184	BURGRAF	
ANALYTICON CORP.	CESAR			89-NM-291	WAKSMAN	
ANALYTICON CORP.	WILLIAM			89-NM-303	WAKSMAN	
ANALYTICON CORP.	JEAN-LUC			89-NA-146	BIRKAN	
ANALYTICON CORP.	SHAMIC			89-NA-095	PCMICHAE	
ANALYTICON CORP.	J.			89-NM-309	BAROUCH	
ANALYTICON CORP.	RECKY			89-NA-159	AMOS	
ANALYTICON CORP.	C			89-NA-171	HARITOS	

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STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PN NAME
ANCO ENGINEERS INC	SCHIMEO	THOMAS	J	89-NP-072	SMITH	WAKSMAN
APPLIED COMPUTATIONAL INTELL.	MAZLACK	LAWRENCE	J	89-NM-222	GILES	GILES
APPLIED INFORMATION SYSTEMS, INC.	BECKETT	BONNIE	H	89-NE-125	BARKER	BARKER
APPLIED MICROWAVE PLASMA CONCEPTS	GUEST	GARET	E	89-NP-146	NACHMAN	NACHMAN
APPLIED RESEARCH ASSOCIATES INC	DAVISTER	MICHAEL		89-M-216	SMITH	SMITH
APPLIED SCIENCE, INC.	FRANK	ROBERT	A	89-NP-057	AMOS	AMOS
	SUES	K		89-NA-158	ULRICH	ULRICH
	BRITO	MAX	K	89-NC-112	ULRICH	ULRICH
	LAKE	X	L	89-NC-113	ULPICH	ULPICH
APTECH ENGINEERING SERVICES, INC.	CIPOLLA	RUSSELL	C	89-NC-114	MARITOS	MARITOS
APTEK INC.	UCY	JERRY	L	89-N-172	NACHMAN	NACHMAN
ARIZONA STATE UNIVERSITY	FERNANDO	H.J.S.		89-NC-205	STOBIE	STOBIE
	KOURIS	DEMITRIS	A	89-NH-457	NACHMAN	NACHMAN
	NICOLAENKO	BASIL		89-NH-422	NACHMAN	NACHMAN
	TSAKALIS	KONSTANTINOS	S	89-NH-4	MELIN	MELIN
ARMY RESEARCH OFFICE	DCLIGALSKI	TOM		89-NA-105	SMITH	SMITH
	GUNDERSEN	MARTIN	A	89-NC-154	TISMOKOFF	TISMOKOFF
	HAAN	DAVID	H	89-NA-137	WITT	WITT
	MINK	JAMES		89-NC-207	STOBIE	STOBIE
ASTER, INC	DERICKSON	RUSSELL	A	89-NC-182	WITT	WITT
ASTRC POWER CIVISION/ASTROSYSTEMS, INC.	MCNEELY	JAMES	E	89-NC-167	WITT	WITT
				89-NC-169	WITT	WITT
ASTRON RESEARCH & ENGINEERING	DAHM	THOMAS	J	89-NC-170	MCMICHAEL	MCMICHAEL
	HEYDT	RICHARD	P	89-NA-089	SAKELL	SAKELL
ASTRUX CORP.	RAGHAVAN	V		89-NA-093	TISMOKOFF	TISMOKOFF
ATHENEX RESEARCH ASSOCIATES	SINGER	STANLEY		89-NA-123	MARITOS	MARITOS
ATKINSON-NDLANCE & ASSOCIATES INC	ATKINSON	R.H>		89-NA-139	STOBIE	STOBIE
ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	HOFFMAN	R		89-NC-203	STOBIE	STOBIE
SCHEIDER	HANS	R		89-NC-105	TISMOKOFF	TISMOKOFF
CRAGIN	JCHN	Q		89-NA-154	NELSON	NELSON
URLIK	FRANK			89-NC-321	NELSON	NELSON
FITZGERALC	J VINCENT			89-NC-374	O	O
AUSTIN	ALAN	S		89-NA-176	SAKELL	SAKELL
AUGUST DESIGN & DEVELOPMENT	WARD	ALLEN		89-NC-131	GILES	GILES
AUSTIN & FAMILY	THOMAS	MARK	C	89-NW-293	WAKSMAN	WAKSMAN
	KUSHNER	BRIAN	H	89-NW-302	NACHMAN	NACHMAN
	TZENG	CHUN-TUNG	G	89-NC-220	ULRICH	ULRICH
	SIM	CONSTANCE		89-NC-389	NACHMAN	NACHMAN
AUTOMATION RESEARCH				89-NC-103	ULRICH	ULRICH
AUTOMATION SOFTWARE INNOVATION				89-NC-111	ULRICH	ULRICH
EDM CORPORATION				89-NC-115	WITT	WITT
BALL STATE UNIVERSITY				93-NE-071	MARITOS	MARITOS
BELTRAN INC				93-NA-079	A	A
				93-NA-089	BOYCE	BOYCE
				99-NC-170	PERRY	PERRY
BERKELEY APPLIED SCIENCE & FNRG.	G					
PANAMERICAN	H					
PLANS	J					
EETHARY COLLEGE	T					

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
EFTHUNE-COOKMAN COLLEGE	COPELAND, PH.C	RICHARD		F	89-NY-255	D	NACHMAN
BIOMAGNETIC TECHNOLOGIES, INC	SLACK, JR	WILLIAM		C	89-NE-183	C	WEINSTOCK
BOEING CO	IKEGAMI	POY	J.	L	89-NM-346	C	CROWLEY
BEING COMPUTER SERVICES INC	TYLEE			L	89-NM-379	C	CROWLEY
BOSTON UNIVERSITY	KOPELL	NANCY		T	89-NL-163	C	NACHMAN
BRANDEIS UNIVERSITY	TOCD	JAMES		D	89-NC-104	C	TANGNEY
BREWER SCIENCE INC	FLAIM	CHARLES		4	89-NL-168	C	ULRICH
BRIGHAM & WOMEN'S HOSPITAL	STIRLING	WYNN		C	89-NM-262	C	BAROUCH
BRIGHAM YOUNG UNIVERSITY	SCCS	J		I	89-NE-065	C	GILES
BRIMROSE CORP. OF AMERICA	CERBONE	RALPH		J	89-XO-007	A	CAVENDER
BROOKHAVEN NATIONAL LABORATORY	PASCIAK	JOSEPH		E	89-NY-347	A	NEILSON
BROWN UNIVERSITY	GOTTLIEB	DAVID		F	89-NM-339	C	SCHLOSSBER
BRUNEL UNIVERSITY	MORSE	T.		C	89-NP-037	A	ULRICH
BUTLER UNIVERSITY	PERRY	CAROLE		C	39-NC-171	A	CERVERY
BYLANDER	FOSTER	JEFFREY		R	99-NL-069	C	BERRY
BUTLER	GIBSON	MARLON		G	89-NL-115	C	CROWLEY
CGS SYSTEMS & TECH., INC.	CHANORAN	WARREN		C	89-NM-221	C	NEILSON
CSA ENGINEERING, INC.	LIGOMENIDES	RAVI		G	99-NE-176	C	WITT
CVD EQUIPMENT CORPORATION	AHRENS	PANOS		A	89-HE-154	C	GILES
CAELLP RESEARCH CORPORATION	MARBLE	THOMAS	J	E	89-NA-182	C	WU
CALIFORNIA INSTITUTE OF TECHNOLOGY	MCKOY	FRANK		E	89-NM-206	C	TISHKOFF
CALIFORNIA STATE UNIVERSITY, FULLERTON	ROSMKC	VINCENT		F	93-NC-160	C	DAVIS
CARNEGIE-MELLON UNIVERSITY	ZENAIL	ANATOL		F	89-NA-180	C	MCMICHAEL
CASE AEROSPACE	VOLPER	HUBERT	Z	H	89-NC-156	C	DAVIS
CASE WESTERN RESERVE UNIVERSITY	CLYMER	DENNIS		H	39-NE-205	C	GILES
CARNEGIE-MELLON UNIVERSITY	AARONSON	JOHN		I	89-HE-095	A	WAKSMAN
CELESTE	SEGALL	HUBERT	Z	I	89-NM-352	A	WAKSMAN
CELESTE	STEIF	PAUL		S	89-NA-104	A	HARITOS
CELESTE	SYCARA	KATIA		P	89-NM-361	A	WAKSMAN
CELESTE	ABCI	F		F	89-NA-165	A	AMOS
CELESTE	ICE	HIROSHI		K	99-NA-085	A	SAKELL
CELESTE	DETERMAN	DOUGLAS		K	39-NC-175	C	TANGNEY
CELESTE	MELER	A		H	89-NE-106	A	ROSENSTEIN
CELESTE	LEBANOWSKI	JCHIN		H	89-NE-102	A	ROSENSTEIN
CELESTE	PAC	YCH-MAN		H	89-NM-419	A	HACHMAN
CELESTE	WOYCZNSKI	MOJBOR		A	89-NM-441	C	NACHMAN
CELESTE	WASHINGTON	WILFIE		J	89-NL-069	C	CERVERY
CHARLES EVANS & ASSOC.	BUTTRILL, JR	SIGNEE		E	89-NC-119	C	WILKES
CHARLES SYSTEMS CORP	HERMAN	MICHAEL		H	89-NE-083	C	WITTE
CHARLES SYSTEMS CORP	NEALCOME	ERUCE		H	99-NE-092	C	GILES
CHARLES SYSTEMS CORP	JACOBUS	CHARLES		J	89-NP-330	C	WAKSMAN
CHARLES SYSTEMS CORP	MITCHELL	BRIAN		J	89-NM-313	C	WAKSMAN
CHARLES SYSTEMS CORP	GARRET	BRUCE		T	89-NC-123	C	DAVIS
CHARLES SYSTEMS CORP	MURPHY	C		S	89-NC-078	C	MAPITOS

INSTITUTION	INVESTIGATOR LAST NAME	FIRST NAME	MIDDLE	PROPOSAL STATUS	PM NAME
CHEMTECH SYSTEMS, INC.	SWAMINATHAN	P	K	89-NE-079	WITT
CITY COLLEGE - CLNY	GOFIKANTH	M. L.		89-NC-124	CAVIS
BIRMAN	JOSEPH		L	93-NC-195	WILKES
GOODMAN	JACOB		E	89-NC-201	LITTON
HC	PING-FEI		E	89-NM-242	HOLLAND
LUELL	MICHAEL		S	89-NM-412	NACHMAN
MALRI	ROBERT			89-NP-071	KELLEY
TSILIGIANNIS	CHRISTICS			89-NM-417	NACHMAN
CLARKSON UNIVERSITY	ATMANASSIOS			89-NM-453	NACHMAN
FCKAS	EGON			89-NM-386	ULRICH
HATJEVIC	LAURI			89-NC-216	MATUSZCJ
VASKA	JCMN			89-NC-131	D
CLAUSERE	ROBERT			89-HP-125	KELLEY
CLEMSON UNIVERSITY	CHARLIE			89-NM-416	NACHMAN
COLORADO STATE UNIVERSITY	FARIBANK, JR.			89-NA-087	BOYCE
ROBINSON	WILLIAM			89-HP-148	PERRIZO
SAMPATH	GARY			89-HE-215	LITTON
STEVENS	W.			89-NE-209	WEINSTOCK
LEAL-CUIRCS	DOANE			89-NC-392	NACHMAN
MARTMANN	EDBERTHO			89-NE-148	LITTON
DISCOOD	SVEN	R		89-NE-149	KELLEY
SILVER	RICHARD	R		89-HP-149	SCHLOSSER
TILARO	RAE			89-NP-056	A
VENKATAPAN	NICHOLAS	J		89-NL-124	MATUSZCJ
AMBROSSE	C.			89-NC-215	GILES
GCLOSPITH	KEVIN	L		89-NE-129	GILES
STCWRS	DEBORAH	L		89-NE-126	NACHMAN
TACRYOLO	STEVEN	T		89-NM-289	PCMICHAEL
WAHABOT	W. WOYTEK			89-NA-094	HARIOS
MULLTY	P			89-NA-101	SAKELL
KCFERNER	WILLIAM	D		89-NM-153	HOLLAND
CISNE	FRANK	G		89-AM-310	WAKSMAN
LEBOVICH	JOHN	L		89-NP-055	SCHLOSSER
OBER	SIDNEY			89-NA-134	A
POLLAK	CHRISTOPHER			89-NC-193	ULRICH
WECCA	CHARLES	P		89-NL-153	BERRY
CRAIG	JCMN			89-NA-195	SAKELL
MARSHALL	DWIGHT	R		89-NC-177	WILKES
MILLER	JEFFREY	S		89-NA-186	PCMICHAEL
ACTHE	MATTHEW	J		89-AM-187	WAKSMAN
OSTEEN	PAUL	H		89-NA-077	TISHKOFF
RUSAK	RICHARD	E		89-NP-300	WAKSMAN
LEPAL	BENJAMIN			89-NL-119	BERRY
LASKEY	DAVID			89-NC-125	MATUSZCJ
LEODO	KATHRYN			93-NM-197	BAROUCH
TELCCOTT	JOHN			89-NL-089	FREGLY
	MARTIN	A		89-NL-083	FREGLY

COUNTERFORCE INCORPORATED
CRAIG DEVELOPMENT CORP.
CRAIG RESEARCH & DEVELOPMENT INC

CDM, INC.
CALMCSIE UNIVERSITY
CARPTHOUT COLLEGE
DECISION SCIENCE CONSORTIUM INC

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
DECISION TECHNOLOGY		IZHAK		89-NP-316	CROWLEY	
CELTAC G. CORP.	SELINSKY	JCHN		93-NE-132	GILLES	
DEPT OF ENERGY - ALBUQUERQUE OPER OFFICE	MCLLZ	RCBERT	A	93-AC-193	FURGRAF	
DEPT OF ENERGY OFFICE OF ENERGY RESEARCH	HARDKOPF	RCEBERT	A	93-NP-150	SMITH	
DESIGN, ANALYSIS & SOFTWARE ENG	GOODWIN	DAVID		89-NP-052	SCHLOSSBER	
DEVICE RESEARCH INSTITUTE	SALAMA	MCKTAR		89-NM-224	NELSON	
DEVTECH		CHENG	T	89-NM-225	NACHMAN	
DIGITAL FANTASIES LIMITED	CHEN	ERIK		89-NP-227	C	NACHMAN
DIGITAL SIGNAL CORPORATION	DEAN	JCHN		89-NP-339	A	NACHMAN
DREXEL UNIVERSITY	JASLOH	HOWARD		93-NM-114	TANGNEY	
DUKE UNIVERSITY	BRESTON	MITOLC		89-NL-081	DAVIS	
	PCFJIVICS	SANDOR		89-NC-153	WU	
	HAFF	PETER	K	89-NA-117	NACHMAN	
	LOCKHEAD	GREGORY	R	93-NE-111	FREGLY	
	SUNDARAJAN	CHELLIAM	R	89-NL-155	A	AMOS
	GEVINS	ALAN		89-NA-151		
	CARRAEZA	MICHAEL		89-NI-166	A	FREGLY
	WCC	WEF-YCNG		93-NP-092	KELLEY	
	ZAKRAYSEK	LOUIS		89-NP-128	BARKER	
	DEY	SURMIT	K	89-NE-151	LITTON	
	KENNEY	MIKE		69-NM-429	NACHMAN	
	CAROME	EDWARD	F	89-NP-145	A	SMITH
	NG	T. TERRY		89-NA-052	MELVIN	
	MUSIC	WAYNE		89-NM-249	EAROUGH	
	PERALA	ROONEY	A	89-NM-211	MCLLAND	
	CHAN	WILLIAM	S	93-NE-082	WITT	
	LEE	MICHAEL		89-NE-083	WITT	
	WANG	C		89-NE-087		
ELECTRONETICS CORPORATION	GCROY	STEPHEN	K	89-NE-055	GILES	
EMCORE CORPORATION		ROBERT	R	89-NL-109	CERVERY	
EMORY UNIVERSITY		GARY	S	89-NL-112	CERVERY	
ENERGY COMPRESSION RESEARCH CORP.	TCMPA	VLADIMIR	S	89-NE-175	WITT	
ENVIRONMENTAL GENETIX, INC.	OLIKER	EUGENE		89-NL-163	NELSON	
EPIC SYSTEMS GROUP	WINGRAD	ODED S.		89-NL-077	FREGLY	
ESSIX CORPORATION	ZLCKER	JESUS	F	89-NP-143	A	SCHLOSSBER
	NEHENZO	YIN	H	89-NL-110	CERVERY	
	SPHM	ROBERT	S	89-NP-306	NACHMAN	
	KENNEY			89-NL-076	TANGNEY	
				89-NL-077	CERVERY	
				89-NL-073	TANGNEY	
				89-NL-086	FREGLY	
EUROPEAN OFFICE OF AERO RSCH AND DEVELOP	ROBERT	S		89-NL-090	A	CERVERY
EUROPEAN OFFICE OF AEROSPACE R&D	JAMES	N		89-NL-087		
EXCEL TECHNOLOGY INC.	EURIG			89-NE-103	WITT	
FAILURE ANALYSIS ASSOCIATES	RAMA			89-NP-122	BARKER	
FLAM & RUSSELL INC	B.			89-NE-161	WEINSTOCK	
	S			89-NE-109	GILES	

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
FLORICA A&M UNIVERSITY	SOLIMAN	MAGDI	R	89-NL-134	BERRY	
FLORICA INTERNATIONAL UNIVERSITY	RISHE	NAPHTALI		89-NM-265	WAKSMAN	
FLORIDA STATE UNIVERSITY	PFEFFER	RICHARD	L	89-NM-393	NACHMAN	
FOOD AND DRUG ADMINISTRATION	STEPHAN	FRIEDRICH	K	89-NL-103	BERRY	
FOSTER-MILLER INC	LANDRY	ROBERT	J	89-NP-103	SCHLOSSBER	
	BOYCE	JOSEPH		89-HE-069	ROSENSTEIN	
GCA ASSOCIATION	HAGHIGHAT	ROSS		89-NC-098	ULRICH	
GALAXY MICROSYSTEMS, INC.	LUSIGNEA	RICHARD	W	89-HC-059	FREGLY	
GENERAL ANALYTICS CORPORATION	AGARWAL	GYAN	C	89-NL-158	GILES	
GENERAL DIGITAL INDUSTRIES, INC.	POSDICK	ROBERT	E	89-HE-116	NELSON	
GENESIS RESEARCH	ACOMIAN	G.		89-NM-167	WAKSMAN	
GEORGE MASON UNIVERSITY	STREETER	GORDON		89-NP-331	BARKER	
	OWENS	THOMAS	L	89-NP-121	WAKSMAN	
	JAJODIA	SUSHIL		89-NM-399	NACHMAN	
	WEIGMAN	EDWARD	J	89-NM-390	SAKELL	
GEORGE WASHINGTON UNIVERSITY	LOWNER	RAINALD		89-NA-183	A	
	NOOR	AHMED	K	89-NA-178	AMOS	
	THALL	PETER	F	89-NM-443	NACHMAN	
GEORGIA INSTITUTE OF TECH	ATTURI	S.	N	89-NM-349	CROWLEY	
	CATRAMBONE	RICHARD		89-NL-093	FREGLY	
	LANDMAN	ULI		89-NC-166	CAVIS	
	AUERBACH	DANIEL	J	89-NC-129	W	
	BAKER	THOMAS		89-NC-128	BURGRAF	
	GUY	RICHARD	H	89-NL-188	MATUSZKO	
	SADOUNGI	MARIE-LOUISE		89-NC-127	BERRY	
	LEE	SHUEH-JI		89-NM-247	WILKES	
		SHUEH	J	89-NM-259	D	
	SCATZLE	F. J.		89-AC-178	HOLLAND	
	BERGER	JOSEF		89-HE-114	NACHMAN	
	KRCNAUER	RICHARD	E	89-NL-148	STOBIE	
	PARKINSON	WILLIAM	H	89-NC-147	STOBIE	
	SCHULL	JONATHAN		89-NL-171	BERRY	
	MALIK	MUJEEB	R	89-NA-034	MCMICHAEL	
	GRAY	FREDERIC	C	89-NE-117	GILES	
	GILL	TEPPER	L	89-NM-229	BERRY	
	SPENCER	MICHAEL	G	89-NP-053	SCHLOSSBER	
	SANTORU	JOSEPH		89-NP-045	STOBIE	
	BRUNDEL	C		89-NE-064	LITTON	
	JCMAR	SANDEEP	R	89-NM-297	WAKSMAN	
	D'SOUZA	ANTHONY	F	89-NM-450	NACHMAN	
	MARVASTI	FAROKH		89-NM-226	WOODRUFF	
	SCFLANG	ARTHUR		89-AC-159	WEINSTOCK	
	GAYNOR	EDWIN		89-NE-070	WITT	
	HICKMAN	GAIL		89-NA-130	McMICHAEL	
	ICONIX CCP	ELIAS (U CENTRAL FL)LLIS		89-NP-119	SCHLOSSBER	
	ILLINOIS INSTITUTE OF TECHNOLOGY	MCCRE-EDE		89-NL-130	PERRY	
		MARTIN	C	89-NL-183	FREGLY	
		EDWARD	E	89-NP-113	SCHLOSSBER	
		VITHEY	L			

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
INT'L SOCIETY FOR CHRONOL BIOLOGY	HAYES	DCRA	K	89-NL-106	A	BERRY
INTEGRATED AEROSPACE SCIENCES CORP.	BOFILIOS	DIMITRI		89-NA-164		MARITOS
INTEGRATED APPLIED PHYSICS (IAPI), INC.	KIRKMAN	GEORGE		89-NP-111		BARKER
INTEGRATED CRYSTAL SYSTEMS, INC.	MATTES	BRENTON	L	89-NW-089		WITT
INTEGRATED ENGINEERING DESIGN INC	CHEN	EN-SHENG		89-NA-122		WU
INTEGRATED SYSTEMS, INC.	KOSUT	ROBERT		89-NA-083		AMOS
INTEGRITY ELECTRONICS & RESEARCH, INC.	VALONE	THOMAS	L	89-NE-067		GILES
INTELLICOMP INC.	SOMANI	A.	F	89-NP-104		SMITH
INTELLICORP INC	FILMAN	ROBERT	K	89-NF-140		GILES
INTELLIGENT SYSTEMS INTEGRATION INC.	LU	Z		99-NM-284		WAKSHAN
INVENTEK COMPANY	LEVY	HENRY		99-NA-091		MELIN
ION PHYSICS CORP.	WILDE	WILDGARTEN	A	89-NE-112		GILES
IOWA STATE UNIV OF SCIENCE AND TECH	CORDNES	JOSEPH	R	89-NA-143		MCMICHAEL
HINOMAN	RICHARD	JAMES	P	89-NA-136		AMOS
PETERS	JUSTIN	RICHARD	P	89-NM-409		NACHMAN
ROTHMAYER	ALRIC	JUSTIN	P	89-NA-202		SAKELL
WESSEL	FRANK	ALRIC	J	89-NM-360		NACHMAN
IRVINE SCIENCE ASSOCIATES	CUNDALL	PETER	J	89-NP-077		BARKER
ITASCA CONSULTING GROUP INC	VAROOUAKIS	IOANNIS	A	89-NP-078		BARKER
J. A. WOCLAW COMPANY	MCCLLAM	JCHAN	G	89-NA-174		BOYCE
J. ANC D. SCIENTIFIC, INC.	MCCORMICK	LARRY	A	89-NA-096		BOYCE
JACKSON STATE UNIVERSITY	GLCIVADE	V	D	89-NP-097		SCHLOSSBER
JORDAN, APOSTOL, RITTER ASSOCIATES, INC	JOHNSTON	SHAYNE	N	89-NM-120		PERRIZO
JUDITH DAYHOFF & ASSOCIATES, INC.	LIP	SEE	N	89-NM-258	C	NACHMAN
JASON ASSOCIATES CORPORATION	RANA	SUNITA	L	89-NM-442		NACHMAN
JET PROPULSION LABORATORY	WONG	SEUNG	S	89-NM-256	D	NACHMAN
JOHNS HOPKINS UNIVERSITY	SRIVASTAVA	SANTOSH	89-NM-260	D	NACHMAN	
EJV	EBY	RONALD	K	89-NE-134	A	GILES
GREENWALD	GREENWALD	RAYMOND	K	89-AC-174	A	SMITH
APCSTAR	APCSTAR	MICHAEL	K	99-NC-211	A	ULRICH
OLIKER	OLIKER	Y.	C	89-NM-286		STOBIE
DAYHOFF	DAYHOFF	JLCITH	E	89-NA-169		NACHMAN
GANE SAN	GANE SAN	KALYAN	I	89-NE-135		GILES
GAFFNEY	GAFFNEY	EDWARD	E	89-AL-108		SERRY
KTECH CORPORATION	FISHBINE	BRIAN	S	89-NE-137		GILES
KACHINA TECHNOLOGIES, INC.	JIANG	HONGMING	H	89-NE-155		ROSENSTEIN
KANSAS STATE UNIVERSITY	RAWI	ALEXANDER	H	89-NP-061		SMITH
KENT STATE UNIVERSITY				89-NP-126		SCHLOSSBER
KENTRICK INC.				89-NE-134		WITT
KESTREL INSTITUTE				89-NM-199	D	BAROUCH
KEYSTONE APPLIED RESEARCH, INC.				89-NM-360		NELSON
KLEIN ASSOCIATES, INC.				89-NL-071		BERRY
				99-NE-152	L	LITTON
				89-NM-365	L	WAKSHAN
				89-NE-164	A	WITT
				89-NM-170	A	WAKSHAN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
KONSAI RESEARCH ASSOCIATES	AGGARWAL	SHASHI		89-NM-232	A	NACHMAN
KOPIN CORPORATION	SALERNO	JACK	P	89-NE-169	A	WITT
KRALL ASSOCIATES	KRALL	NICHOLAS	A	89-AP-120	A	BARKER
KRESGE HEARING RESEARCH INSTITUTE	PFINGST	BRYAN	E	89-NL-157	A	TANGNEY
KUCK & ASSOCIATES, INC.	RAJIC	HRABRI	L	89-NM-329	A	HOLLAND
LJ SOFTWARE	WELLS	DANIEL	L	89-NM-328	A	HOLLAND
LAGUNA RESEARCH LAB	BEGEJA	LEE	G	89-NE-127	A	GILES
LAWRENCE BERKELEY LABORATORY	LOOS	HENDRICUS	G	89-NE-059	A	GILES
LAWSON VIDEOGRAPHIC, INC.	LEUNG	KA-NGC	G	89-HP-152	A	SMITH
LEHIGH UNIVERSITY	LAISON	RAYMONO	R	89-NH-308	A	WAKSMAN
LEMNER PEARSON INC.	MACPHERSON	ALISTAIR	K	89-NM-368	A	NACHMAN
LINCOLN LABORATORY/MIT	PEARSON	J.	H	89-HP-033	A	SCHLOSSBER
LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	LIPPmann	QICHARD	G	89-HE-101	A	GILES
LOS ALAMOS SCIENTIFIC LAB (DCE)	SCILLER	T.C.L.G.	G	89-NE-204	A	WITT
LOUISIANA STATE UNIVERSITY	HARRADINE	DAVID	C	89-NC-130	A	BURGRAF
LYMAN FOWLER	FOWLER	JOHN	C	89-NL-100	A	BERRY
EL-AMAWY	AHMED	YEW	G	89-NM-341	A	NELSON
HO	KAM	KAH	S	89-HP-141	A	KELLEY
TAYAL	SHARAJ		S	89-HP-038	A	KELLEY
TEMPLE	DOYLE		S	89-HP-133	A	SCHLOSSBER
VOYIAJJIS	GEORGE	Z	S	89-NA-109	D	MARITOS
LAVIO	MOSHE		S	89-NA-153	D	TISHKOFF
MARUCCO	MATTHEW		S	89-NC-097	A	ULRICH
TRIMMER	MARK		S	89-NC-102	A	WAKSMAN
MOGRI	JUZER		S	89-N-319	A	HOLLAND
THAMES	JOSEPH		S	89-NM-318	A	SAKELL
BUCKMAN	JAY		A	89-NA-127	A	NELSON
HALVORSON	MARILYN	O	S	89-NH-194	A	WAKSMAN
STRUMWASSER	FELIX	O	S	89-NL-185	A	TANGNEY
JHB	SUNIL	C	S	89-N-123	A	BERRY
DALES	ROBERT	C	S	89-NE-156	A	ROSENSTEIN
		L	S	89-NE-057	A	GILES
MARINE BIOLOGICAL LABORATORY				89-N-075	A	TANGNEY
PARKO MATERIALS INC.				89-NM-219	A	WAKSMAN
PARTINGALE RESEARCH CORPORATION				89-NI-073	A	CERVERY
MASON RESEARCH INSTITUTE	SENDLBACH	LOUIS	E	89-NI-009	A	CAVENDER
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DRESSELHAUS	GENE	G	89-NI-175	A	MELIN
	DRELA	MARK	F	89-NA-193	A	TISHKOFF
	GHENIEH	AHMED	F	89-NM-351	A	BAROUCH
	HUBER	PETER	H	89-HP-047	A	SMITH
	KIAG	ROBERT	H	89-NP-083	A	SMITH
	LYNCH	HARRY	J	89-NL-121	A	BERRY
	MURMAN	EARLL	H	89-NA-184	A	SAKELL
	NELSON	KEITNA	A	89-NC-142	A	WODARCZYK
	SILBEY	ROBERT	A	89-NC-135	A	DAVIS
	STEINFELD	JEFFREY	I	89-NC-120	A	DAVIS
	YANG	T	F	89-NA-106	A	DIRKAN
	AKSAY	ILMAN	A	89-NC-207	A	ULRICH
MATERIALS RESEARCH SOCIETY						

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
MATERIALS SCIENCES CORPORATION	SULLIVAN	BRIAN	J	99-NA-074	HARIOS	A	
MAX PLANCK INSTITUTE FUER AERONOMIE	GRABKE	JAMES	J	89-NA-080	HARIOS	D	PATUSZK
MCKENNA PRODUCTS, INC.	MCKENNA	TCM	J	89-NC-133	TISCHOFF		
MEADCHARK OPTICS, INC.	BALR	ECMONC		89-NA-149	GILES		
MEASUREMENTS RESEARCH INC.	CMGUINARD	MARK	A	89-NE-118	TAMONEY		
MEMISTOR CORP	GLUCK	HENRY	A	89-ML-161	BERRY		
MEMPHIS STATE UNIVERSITY	KURTZ	V. MOHAN		89-NL-072	DAVIS		
MESOSCALE ENVIRON SIMUL & OPER INC	KARYAMPUDI	WYMAN		89-NC-139	STOBIE		
METRI WAVE INC.	WILLIAMS	JAMES	O	89-IP-068	SCHLOSSBER		
METROLASER	TRCLINGER	HANOCHEHR		89-IP-110	SMITH		
MICHIGAN STATE UNIVERSITY	KCCCMESFATANI	PATRICIA	K	89-NA-108	A		
LAPM	MACCLUE	CHARLES	R	89-NN-261	A		
	PERGER	WARREN	F	89-NM-423	NACHMAN		
	VIEGELAHN	GARY	L	89-NM-408	NACHMAN		
	EPPS, JR.	BILL		89-NN-432	NACHMAN		
MICROSENSOR SYSTEMS, INC.	WCHTJEN	H.		89-NC-433	NACHMAN		
MICROTRONICS ASSOCIATES, INC.	CCON	DARRYL		89-NC-299	NELSON		
MID-SOUTH ENGINEERING	KARSAI	GABOR	O	89-NC-187	BURGRAF		
PILWAUKEE PUBLIC MUSEUM	SPIELER	RICHARD	E	89-NE-058	GILES		
MISSION RESEARCH	CAPPBELL	PHIL		89-NM-296	WAKSMAN		
	HUTCHESON	GEORGE		89-NL-116	BERRY		
	KIUTTU	GERALD		89-IP-168	NELSON		
	MCSTRCH	MICHAEL	F	89-NC-175	ULRICH		
	BELANGER	SUSAN	A	89-IP-079	BARKER		
	BRANDENBURG	JOHN	H	89-IP-073	WODARCZYK		
	GCPLEN	BRUCE		89-NC-108	BARKER		
	LARKIN	ROBERT		89-IP-082	BARKER		
	CHEN	CHUEN-LUNG	J	89-NC-155	A		
	SMYER	WILLIAM		89-NC-109	WODARCZYK		
	JURY	PAUL		89-IP-455	NACHMAN		
	SMEBY	DAVID		89-NM-385	NACHMAN		
	MARKS, II	RCBERT	J	89-AP-332	WAKSMAN		
	PETERSON	BRYAN	G	89-AP-064	SMITH		
	CGDON	O.		89-NE-133	GILES		
				89-IP-098	SCHLOSSBER		
				89-NM-168	NACHMAN		
				89-NM-195	NACHMAN		
NASA - AMES RESEARCH CENTER	DAVID		K	89-NM-196	SAKELL		
NASA - GODDARD SPACE FLIGHT CENTER	HARVARD			89-NA-197	A		
NANCY-1 UNIV (FRANCE) LAB DE PHYSIQUE	R		S	89-NA-107	MCMICHAEL		
NAHOPTICS INC.	AARON			89-IP-147	KELLEY		
NATIONAL ACADEMY OF SCIENCES	MARTHE			89-IP-137	A		
A J DAMASKOS INC	HARMON			89-NC-110	ULRICH		
	BLIMENTHAL	MARJORIE	J	89-NM-375	WAKSMAN		
	CHENG	RILEY		89-NA-116	BOYCE		
	CCX	LAWRENCE	H	89-NM-376	NELSON		

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
NATIONAL BUREAU OF STANDARDS	CAVENAGH	RICHARD	R		89-NC-117	BURGGRAF	
	DAVIS	RONALD	W		89-NA-140	TISHKOFF	
	SIPIU	EPIL			89-NA-203	AMOS	
	TSANG	WING			89-NA-142	AIRKAN	
NATIONAL INST. OF STANDARDS & TECHNOLOGY	HASTIE	JOHN	W		89-NE-098	SCHIOLER	
	LAWN	BRIAN	R		89-NE-059	SCHIOLER	
	SIPIU	EMIL	R		89-NA-110	HARITOS	
NATIONAL SCIENCE FOUNDATION	DAGENHAIS (U. PD)	HARIO	R		89-NP-032	SCHLOSSBER	
NAVAL RESEARCH LABORATORY	BUTLER	JAMES	E		89-NP-050	SCHLOSSBER	
	GREENWOOD	DAN	R		89-NM-276	SCHLOSSBER	
NETRLOGIC, INC.	JOHNSON	JAMES	C		89-NC-180	CROWLEY	
	KLIMASASUKAS	CASIMIR			89-NE-109	STOBIE	
NEURAL WARE	INAL	OSMAN	T		89-NE-105	GILES	
NEW MEXICO INSTITUTE OF MINING AND TECH	WILLIAMSON	SAMUEL	J		89-NL-092	ROSENSTEIN	
NEW YORK UNIVERSITY	NIXON	DAVID	R		89-NA-068	FREGLY	
NIELSEN ENGINEERING AND RESEARCH CO	KUNG	MOU	L		89-NM-254	HELIN	
NORFOLK STATE COLLEGE	MILLER	GEORGE			89-NP-056	NACHMAN	
NORTH CAROLINA A&T STATE UNIVERSITY	KUPAR	ASHOK			89-NM-251	SCHLOSSBER	
NORTH CAROLINA CENTRAL UNIVERSITY	JCNES	C.			89-NP-043	NACHMAN	
NORTH CAROLINA STATE UNIVERSITY	SALAMA	IBRAMIM	A		89-NM-257	CROWLEY	
	CAMPBELL	STEPHEN	L		89-NC-335	GLASSMAN	
	FAAG	SHU-CHEARING	P		89-NC-269	BAROUCH	
	QUESENBERRY	C.			89-NM-218	TANGNEY	
	ENCERLE	JCHN	O		89-NL-094	DAVIS	
	GORDON	MARK	S		89-NC-137	WITT	
	WCCD	COLIN	E-		89-NE-163	WITT	
					89-NE-172	WITT	
NORTHEASTERN UNIVERSITY	GIESE	ROGER	W		89-NE-173	CERVERY	
NORTHERN ILLINOIS UNIVERSITY	MEISING	CAROLYN	D		89-NL-105	BAROUCH	
	BLOOM	FREDERICK	D		89-NM-237	NACHMAN	
	DATTA	BISWA	H		89-NM-384	CROWLEY	
NORTHWEST RESEARCH ASSOCIATES, INC.	DELISI	OCNALC	P		89-NM-292	NACHMAN	
NORTHWESTERN UNIVERSITY	MARKS	TOBIN	J		89-NC-100	STOBIE	
	MCKOON	GAIL			89-NC-219	DAVIS	
	CLSON	G.			89-NC-149	FREGLY	
	RATNER	MARK			89-NL-180	ROSENSTEIN	
	RCLTTENBERG	ARYEH	A		89-NE-206	DAVIS	
	SCFRANK	RIGGER			89-NC-150	BERRY	
	SCHMAJUK	NESTOR	C		89-NL-187	WAKSMAN	
	SHRIVER	DUWARC			89-NC-363	BERRY	
	TORKELSON	JCHN			89-NL-084	WILKES	
	TUREK	FRED			89-NC-209	DAVIS	
	CRARY	BRUCE			89-NC-154	BERRY	
OPTRACK INC.	HERCHER	MICHAEL			89-NL-143	SCHLOSSBER	
					89-NP-115	SMITH	
					99-NP-107		

INSTITUTION INDEX (1 JAN 89 - 31 MAR 89)
 AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
 STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
CRPAC, INC.	COADON	JAMES	H	89-NC-189	WILKES	
CDIN CORPORATION	HUANG	YEE-WEI		89-NE-128	GILES	
CODYSEY RESEARCH ASSOCIATES	GUASPARTI	DAVID		89-NM-274	WAKSMAN	
	HOCK	JAMES		89-NM-290	WAKSMAN	
CHEM STATE UNIV RESEARCH FOUNDATION	AMALT	STANLEY	C	89-NE-208	GILES	
	BAKER	GREGORY	R	89-NM-320	NACHMAN	
	EBNER	C.*	A	89-NE-199	WEINSTOCK	
	FRIEDMAN	HARVEY		89-NH-203	C	NACHMAN
	BROKEY	ROBERT	S	89-NA-131	NCMICHAEL	
CHIO UNIVERSITY	WIGEN	PHILIP	E	89-NE-031	SCHLOSSBER	
CHIO UNION UNIVERSITY	LOZYKOWSKI	HENRYK	J	89-NE-061	LITTON	
CHIO UNION SYSTEMS, INC	TOIDA	SHUNICHI		89-NM-184	WAKSMAN	
	FARBER	IRA		89-NE-142	GILES	
CHIO STATE UNIVERSITY	NICOLI	ANTHONY		89-NE-153	LITTON	
	TSAKIRIS	TCDO		89-NP-100	SCHLOSSBER	
	GRASSMAN	ROBERT		89-NE-150	WAKSMAN	
	CREWE	ALBERT		89-NE-193	WITT	
	BELL	A.		89-NL-167	BERRY	
CRCHEC ONE CORPORATION	LEHY	ALFRED		89-NE-179	WITT	
COREGON HEALTH SCIENCES UNIVERSITY	UNGAR	JEFFREY		89-NE-123	GILES	
COREGON GRADUATE CENTER FOR STUDY & RESCH	MCRTON	STEVEN	G	89-NC-146	ULRICH	
CRTFC COMPUTER	H. GREEN	MALCOLM	L	89-NC-102	CERVENY	
CXFORC COMPUTER	MALINS	DONALD	C	89-NE-202	LITTON	
PACIFIC NORTHWEST RESEARCH FOUNDATION	GCLOFARB	MARK		89-NA-124	HELIN	
PALISADES INSTITUTE FOR RSCH SERVICES	CHILUKURI	R		89-NE-110	GILES	
PARALLEL LOGIC SYSTEMS	BLOSSER	ROBERT		89-NE-111	GILES	
PARTICLE PHYSICS DIV. OF PLASMA PHYSIC	WERTH	LARRY		89-NC-192	WILKES	
PATTERN PROCESSING TECHNOLOGIES, INC.	BAPPI	NICHOLAS		89-NE-144	GILES	
PEAKS INSTRUMENTS, INC.	WEIGHT	THOMAS	H	89-NA-265	NELSON	
PENGUIN SOFTWARE, INC.	DLIKRAVICH	GEORGE	S	89-NC-206	ULRICH	
PENNNSYLVANIA STATE UNIVERSITY	PANTANO	CARLO	G	89-NC-221	ULRICH	
	RCY	RUSTUM		89-NE-035	KELLEY	
	SMITH	GERALD	A	89-NM-334	WAKSMAN	
	GRAFFIN	MICHAEL	F	89-NE-180	LITTON	
	TRAN	NAM	H	89-NM-234	NACHMAN	
	CHLN	HON	H	89-NA-177	A MOS	
	TURNER	JAMES	D	89-NH-192	NELSON	
	HASSLACHER	BROSIL		89-NP-073	SMITH	
	MACKAY	BRUCE		89-NA-147	TISHKOFF	
	AYE	TIN		89-NE-178	WITT	
	CHEN	RAY		89-NE-143	GILES	
	JAANSCH	TOMASZ		89-NE-101	BARKER	
	MOX	JOHN		89-NC-196	ULRICH	
	SAVANT	GAJENCRA		89-NP-105	SMITH	
	FITZPATRICK	GERALC		89-NP-118	PERRIZO	
	LEGNER	MARTMUT	L	89-NA-072	NCMICHAEL	
	AMIK	AVNER		89-PP-129	EARKEQ	
PHYSICAL RESEARCH, INC.						
PHYSICAL SCIENCES INC						
PHYSICS & ENGINEERING RESEARCH						

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
PIECEWISE LINEAR SYSTEMS	GREENSPAN	PHILLIP	G	89-NM-304	NACHMAN	
POLYTECHNIC INSTITUTE OF NEW YORK	KUNHARDT	ERIC	E	89-NP-093	SMITH	
POLYTECHNIC UNIVERSITY	WOLF	EDWARD	L	89-NE-093	WEINSTOCK	
POTOMAS SYNERGETIC INC. (PSI)	CORCORAN	V.	J	89-NP-095	A	PERRIZO
PRINCETON PHYSICAL SCIENCES, INC.	PCTASEK	MARY		89-NM-294	NACHMAN	
PRINCETON SCIENTIFIC ENTERPRISE, INC.	BLAIR	DAVID	W	89-NE-090	WITT	
PRINCETON UNIVERSITY	JHA	NIRAJ	K	89-NM-244	WAKSMAN	
	MILES	RICHARD	B	89-NA-115	MCMICHAEL	
	SMITS	ALEXANDER	J	89-NA-181	ULRICH	
	SUDARESAN	SANKARAN		89-NC-155	NELSON	
PROGRAM DEV. CORP. OR SCARSDALE, INC	EISEMAN	PETER	R	89-NM-212	A	FREGLY
PROGRAM DEVELOPMENT SYSTEMS INC	SCHEWARTZ	JEFFREY	P	89-NL-156	BURGGRAF	
PROMATEC, INC.	PRICE	HOWARD	L	89-NC-190	GILLES	
PROTO TYPE DEVICES	THOMAS	FRED		89-NE-138	WU	
PURDUE RESEARCH FOUNDATION	CHEN	WAI-FAH		89-NA-195	LITTON	
PURDUE UNIVERSITY	GUNSHOR	ROBERT	L	89-NE-200	WAKSMAN	
	ATALLAH	Mikhail		99-NM-407	STOBIE	
	SUN	WEN-YIH		89-NC-208	GILES	
C-DOT INC	REEF	DAVID	E	89-NE-056	WITT	
QUANTEX CORPORATION	STCRTI	GEORGE	H	89-NA-148	TISHKOFF	
QUANTIC INDUSTRIES, INC.	MCANNIEL	OLIN	K	89-NP-089	SCHLOSSBER	
				89-NE-090	HITT	
QUANTUM EPITAXIAL DESIGNS, INC.	HIERL			89-NE-165	SMITH	
QUANTUM MAGNETICS, INC.	AVRIL			89-NP-108	WILKES	
QUILTED LOGIC TECHNOLOGY COMPANY	SAGER			89-NC-186	GILES	
RESPEC INC	RONALD			89-NE-146	WU	
RSC INC	LEONARD			89-NA-090	WAKSMAN	
RADIX SYSTEMS, INC.	SENSEY			89-NW-220	SMITH	
REFRACTORY COMPOSITES	SUMERS	THOMAS	S	39-NP-109	TISHKOFF	
RENSSLAER POLYTECHNIC INSTITUTE	PULLI	JAY	T	89-NA-155	BOYCE	
	PAQUETTE	E.L.		89-NA-132	A	NACHMAN
	DOERY	RICARDO		89-NM-204	DAROUCH	
	O'MALLEY, JR.	ROBERT	E	89-NM-340	NACHMAN	
	PIMBLEY	JOSEPH		89-NM-322	SCHIOLER	
	ROYTBURD	VICTOR		89-NE-197	WEINSTOCK	
	WOODFORD	DAVID	A	89-NE-185	C	
	BUCKENSTEIN	ELI		89-NE-427	CROWLEY	
	ENSOR	KATHERINE		89-NC-240	MATUSZKO	
RESEARCH FOUNDATION FOR MENTAL HYGIENE	PEARSON			89-NC-168	BERRY	
RICE UNIVERSITY	AGCSTA			89-NL-165	BERRY	
ROCKEFELLER UNIVERSITY	MURLBUR	WILLIAM		89-NL-147	HARITOS	
	MCNEWK	BRUCE		89-NA-194	WODARCZYK	
	COX	BRIAN		89-NC-134	GILES	
	CHRISTIE	K.		89-NC-136	GILES	
	WINKER	B.		89-NE-212	PETER	
	YEY	POCHI		89-NE-124	DAVIS	
ROSEBERRY, INC.	JERRY			89-NC-201		
ROYAL HOLLOWAY & BEDFORD NEW COLLEGE	GARDNER					

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PY NAME
FUTGERS - THE STATE UNIVERSITY	AVI-ITZHAK HAMMER RCOERTS SUSSMANN SHEU EWING KRAUTHAMMER HENSHAW CROSLEY ECKSTROM GLOEN HICKMAN KACHRU SHCRT BRACKEN MCCOY SABBAGH	BENJAMIN PETER FRED HECTOR PHILLIP GALEN T. PHILIP DAVID DYNALC DAVIS A. PEET RAVINCER MICHAEL JEROME JOHN L.	L S J H D R J H	89-NH-205 99-NM-370 89-NP-456 99-NM-337 99-NP-364 99-NP-114 99-NA-160 89-NC-126 89-NP-140 89-NC-152 89-NC-116 89-NP-102 89-NE-153 89-NM-307 89-NP-086 89-NM-272 89-NH-273	0	RANKIN NACHMAN NACHMAN CROWLEY WAKSMAN SCHLOSSER AMOS GILES WODARCZYK BARKER DAVIS KELLEY KELLEY WEINSTOCK NACHMAN SMITH NACHMAN NACHMAN CROWLEY FREGLY WEINSTOCK BURGGRAF WEINSTOCK SCHLOSSER WITT SCHLOSSER WITT STOBIE NACHMAN STOBIE HU BOYCE HOLLAND WAKSMAN TISMOKOFF WITT HOLLAND MOLLAND CROWLEY WITT GILES CROWLEY WAKSMAN CROWLEY CROWLEY NACHMAN
SRI INTERNATIONAL	GEVINS JACOBSON MOCRE HCKNEY	A. RODNEY CAMERON RICHARD	S. HOWARD	89-NL-278 89-NL-091 89-NC-105 89-NE-162		
SRS TECHNOLOGIES	SCHMIDT	WELFORD MATTINGLY EICELMAN BRIX FULGHUM THIRUMALAI QI BERNDT	D. PAUL S. DANIEL STEPHEN K. DONALD ANDREW	89-NC-183 89-NC-177 89-NC-197 89-NC-195 89-NA-070 89-NA-123 89-NM-210 89-NC-076	A	
SRS TECHNOLOGIES, INC.	SAYCON TECHNOLOGY CORPORATION	SCIENCE & ENGINEERING ASSOCIATES SCIENCE APPLICATIONS INTERNATIONAL CCRP. SCIENCE RESEARCH LABORATORY	SCIENCE AND TECHNOLOGY INSTITUTE INC. SCIENCE AND TECHNOLOGY RESEARCH INC SCIENTIFIC COMPUTING ASSOCIATES INC	89-NP-069 89-NC-177 89-NC-197 89-NC-195 89-NA-070 89-NA-123 89-NM-210 89-NC-076	A	
SATCON, INC.	SCHMID INSTRUMENTS	WELFORD MATTINGLY EICELMAN BRIX FULGHUM THIRUMALAI QI BERNDT	Z. G. J.	89-NM-209 89-NM-174 89-NE-079 89-NE-080 89-NE-065 89-NC-206 89-NM-207 89-NC-217 89-NC-214 89-NM-233		
SABBAGH ASSOCIATES, INC.	GEVINS SANDIA SYSTEMS SAYCON TECHNOLOGY CORPORATION	SCIENTIFIC ELECTRO-OPTICS INC. SCIENCE & ENGINEERING ASSOCIATES SCIENCE APPLICATIONS INTERNATIONAL CCRP. SCIENCE RESEARCH LABORATORY	SCIENCE AND TECHNOLOGY INSTITUTE INC. SCIENCE AND TECHNOLOGY RESEARCH INC SCIENTIFIC COMPUTING ASSOCIATES INC	89-NM-209 89-NM-174 89-NE-079 89-NE-080 89-NE-065 89-NC-206 89-NM-207 89-NC-217 89-NC-214 89-NM-233		
SABBAGH ASSOCIATES, INC.	SCIENTIFIC TECHNOLOGY, INC.	SCIENTIFIC SYSTEMS INC.	SCIENTIFIC RESEARCH ASSOCIATES, INC.	89-NM-209 89-NM-174 89-NE-079 89-NE-080 89-NE-065 89-NC-206 89-NM-207 89-NC-217 89-NC-214 89-NM-233		
SABBAGH ASSOCIATES, INC.	SCIENTIFIC SYSTEMS INC.	SCIENTIFIC RESEARCH ASSOCIATES, INC.	SCIENTIFIC RESEARCH ASSOCIATES, INC.	89-NM-209 89-NM-174 89-NE-079 89-NE-080 89-NE-065 89-NC-206 89-NM-207 89-NC-217 89-NC-214 89-NM-233		

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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	LAST NAME	PROPOSAL	STATUS	PM NAME
SELSYS CORPORATION	HANLIN	H.		RICHARD	89-NM-249		
SIEVERS RESEARCH INC	GOCCE	D.		GENE	89-NE-121		
SILMCUETTE TECHNOLOGY, INC	DIYER			ROBERT	89-NE-157		
SOUTHERN ILLINOIS UNIVERSITY	ALCRED			JAMES	89-NM-177		
SOUTHERN METHODOIST UNIVERSITY	FERRARO			JEFF	89-NL-181		
SOUTHWEST SCIENCES, INC.	KENNINGTON			SAMIR	89-NL-145	A	
SPACE POWER, INC.	SCLMAN			DAVID	89-NM-190		
SPARTA INC	BOMSE			JOHN	89-NC-447		
SPECOM	LAWLESS			GEORGE	89-NC-116		
SPECTRAL INTELLIGENCE CORP.	LESIENUTRE			JOHN	89-NC-200	A	
SPECTRUM SCIENTIFIC	DARBY			KENNETH	89-NA-162		
SPIRE CORPORATION	DAVIS			MARVEL	89-NC-301		
STANFORD UNIVERSITY	HIGGINS JR			PATRICIA	89-NE-086		
STANFORD UNIVERSITY	SEKULA-MOISE			DAVID	89-NE-186		
STANFORD UNIVERSITY	STEVENSON			FL-KUC	89-NA-082		
STANFORD UNIVERSITY	CHANG			GERALD	89-NC-143		
STANFORD UNIVERSITY	FULLER			H	89-NL-146		
STANFORD UNIVERSITY	HELLER			GEORGE	89-NA-189		
STANFORD UNIVERSITY	HEFRMANN			ZCHAR	89-NM-323	A	
STANFORD UNIVERSITY	HAMAHA			RICHARD	89-AE-214		
STANFORD UNIVERSITY	PANTELL			THOMAS	89-NP-153		
STANFORD UNIVERSITY	SIGMON			RICHARD	89-NE-096	A	
STATE UNIVERSITY OF NEW YORK	SNOW			ROBERT	89-NL-177		
STATE UNIVERSITY OF NEW YORK	ANON			EDWARD	89-NA-191		
STATE UNIVERSITY OF NEW YORK	STCPA			NICHOLAS	89-NL-120		
STATE UNIVERSITY OF NEW YORK	KAZARINOFF			ROBERT	89-NM-354		
STATE UNIVERSITY OF NEW YORK	MOORE			ROBERT	89-NL-131		
STATE UNIVERSITY OF NEW YORK	OSTERYOUNG			ROBERT	89-NC-132		
STATE UNIVERSITY OF NEW YORK	PASTORE			RICHARD	89-NL-164		
STATE UNIVERSITY OF NEW YORK	PRASAC			PARAS	89-NC-167	W	
STATE UNIVERSITY OF NEW YORK	SOCUMEKH			WEHRDAD	89-NC-202		
STATE UNIVERSITY OF NEW YORK	ZACKS			SHELEMYAHU	89-NM-440		
STATE UNIVERSITY OF NEW YORK	SATYANARAYANA	A		CHAPMAN	89-NH-238		
STATE UNIVERSITY OF NEW YORK	YOUNG			P	89-NM-452		
STATE UNIVERSITY OF NEW YORK	STUDT			STEPHEN	89-NP-099		
STATE UNIVERSITY OF NEW YORK	PIKE			HENRY	89-NP-093		
STATE UNIVERSITY OF NEW YORK	BAKER			C J	89-NP-105		
STATE UNIVERSITY OF NEW YORK	SCHLERETH			G	89-NM-288		
STATE UNIVERSITY OF NEW YORK	NEIGHBORS			H	89-NM-311		
STATE UNIVERSITY OF NEW YORK	POCTETE			H	89-NM-213		
STATE UNIVERSITY OF NEW YORK	KIRKCAID			WADE	89-NA-129		
STATE UNIVERSITY OF NEW YORK	AMAN			GARY	99-NM-277		
STATE UNIVERSITY OF NEW YORK	TAE			TAE	99-NA-170	C	
TINI ALLOY COMPANY	JOHNSON	A.		WITT	89-NE-195		
TINI ALLOY COMPANY		D			89-NE-171		

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	LAST NAME	PROPOSAL	STATUS	FM NAME
TSI ENTERPRISES, INC.	JAWSHIDI			MOHAMMAD	89-NE-145	GILES	
TACAN CORPORATION	NELSON			ARTHUR	89-NP-063	SMITH	
TALANDIC RESEARCH CORP.	LANDESMAN			BARBARA	89-NM-279	NACHMAN	
TANNER RESEARCH, INC.	TANNER			JOHN	89-NE-119	GILES	
TECH. REPS., INC.	ETYRICGE			NOEL	89-NP-084	SMITH	
TECHNICALYSIS INC	AKAY			HASAN	89-NA-099	MCMICHAEL	
TECHNICAL ASSESSMENTS SYSTEMS, INC.	FELKNER	CECIL	I	CHANTAL	89-NL-114	HARITOS	
TECHNICAL RESEARCH ASSOCIATES INC.	GEASSE	GREGORY		GREGORY	89-NC-107	CERVENY	
TECHNATION R SCH & DEVELOPMENT FOUNDATION	LIESE	LEAH		LEAH	99-NA-092	ULRICH	
TECHNOLGY INTERNATIONAL, INC	GAL-OR	ABOO		GAL-OR	89-NE-060	MCMICHAEL	
LIANG	HUSSEINY	ENJU		HUSSEINY	89-NM-283	SCHIOLER	
FARUQI	FARHAN		A	FARHAN	89-NM-250	WAKSMAN	
KEEFER	DENNIS	K	A	KEEFER	89-NA-103	NACHMAN	
REDDY			C	REDDY	89-NM-410	SMITH	
FLIZONDO	JUAN			JUAN	89-NP-059	WITT	
MOENY	WILLIAM			WILLIAM	89-NE-081	BERRY	
CASSONE	V			CASSONE	89-NL-104	WU	
LITTLE	D			LITTLE	89-NA-036	NACHMAN	
MORGAN	J.			MORGAN	89-NM-198	D	
SMITH	R.			SMITH	89-NP-058	DAVIS	
CHESNAVICH	WALTER			CHESNAVICH	89-AC-141	DAVIS	
ISHIHARA	OSAMU			ISHIHARA	89-NP-066	BARKER	
GORALSKI	ANTHONY			GORALSKI	89-NM-223	WAKSMAN	
CASSELMAN	STEVEN			CASSELMAN	89-NM-317	WAKSMAN	
SCROEDER	JON			SCROEDER	89-NE-120	GILES	
STIVER	JCHN			STIVER	89-NE-181	LITTON	
MARTIN	HERVE			MARTIN	89-NE-182	WEINSTOCK	
KCA	JCESEPH			KCA	89-NL-107	CERVENY	
KERRIN	STEPHEN			KERRIN	89-NL-074	TANGNEY	
WALSH	FRASER			WALSH	89-NP-065	SMITH	
PEARSON	RCBERT			PEARSON	89-NL-113	CERVENY	
DAVIS	A			DAVIS	89-NC-181	ULRICH	
COUNCIL	FRANCIS			COUNCIL	89-NC-160	WEINSTOCK	
FRONAC, INC.	PHILIP		R	FRONAC, INC.	89-NA-210	MATUSZKO	
YULANE UNIVERSITY	RECWN		A	YULANE UNIVERSITY	89-NA-073	SAKELL	
TUSKEGEE INSTITUTE	ABCELGHANI			TUSKEGEE INSTITUTE	89-NP-060	SMITH	
TWO-SIX INCORPORATES	HSL			TWO-SIX INCORPORATES	89-NC-191	BALL	
U.S. NAVAL ACADEMY	NICHOLS			U.S. NAVAL ACADEMY	89-NL-070	CERVENY	
UTD INC.	PHILLIPS			UTD INC.	89-NM-378	NACHMAN	
TRINITY COLLEGE	FCSTER			TRINITY COLLEGE	89-NE-166	WITT	
TROGLODYTE SOCIETY, INC.	EUGENE			TROGLODYTE SOCIETY, INC.	89-NM-353	GASSMAN	
UNITED ENGINEERING TRUSTEES INC	RCNALL			UNITED ENGINEERING TRUSTEES INC	89-NA-120	WU	
	WAYNANT				89-NA-121	WU	
					89-NP-085	SCHLOSSBER	
					99-NP-096	SCHLOSSBER	

INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNITEC TECHNOLOGIES RESEARCH CENTER UNIV OF ALABAMA	BLAIR	MICHAEL	H.	F	89-NA-198	HELIN	GILES
	CAULFIELD	V.		J	89-NE-196	NACHMAN	NACHMAN
	CHANDRASEKAR	BECKY		K	89-NM-438	NACHMAN	ULRICH
	TOGHIANI	PAUL			89-NC-144	WJ	
UNIV OF ARIZONA	CALVERT	FRANTZISKONIS	G.		89-NA-112	A	CAVENDER
	GIESON	URSULA	A.		89-XO-010	A	MCMICHAEL
	GLEZER	R.		K	89-NE-210	GILES	
	KOSTUK	ALAN		C	89-NN-389	NACHMAN	
	NEWELL	DENNIS		M	89-NM-383	NACHMAN	WEINSTOCK
	BREWER	RICHARD	T.		89-NE-100	A	NACHMAN
	KCWORDCSKI			S	89-NM-253	C	CROWLEY
UNIV OF ARKANSAS	BHATTACHARVA	J.		T	89-NC-162	A	WOODARZYK
UNIV OF CALIFORNIA	BIESON	MICHAEL			89-NL-176	W	TANGNEY
	ACHERS	BRUCE			89-NC-204	A	STOBIE
	BRIDGEMAN	SUPRIYA			89-NN-403	A	GROSSMAN
	CHAKRABARTI	TSU-SHUAN	E		89-NL-133	A	BERRY
	CHANG	F.			89-NE-264	A	WAKSMAN
	DUDEK	MICHAEL			89-NE-203	A	ROSENSTEIN
	DOYER	JAMES		C	89-NE-040	A	SCHLOSSBER
	EARTHMAN, JR	ROGER		H	89-NP-040	A	BERRY
	FALCONE	CHARLES		A	89-NI-142	A	KELLEY
	FULLER	ROBERT		J	89-NP-048	A	LITTON
	GCLLD	ALAN		J	89-NE-198	A	BOYCE
	HEEGER	POUL		J	89-NA-123	A	NELSON
	LACE	MARVIN		J	89-NN-372	A	BERRY
	MARCUS	DENNIS		J	89-NI-127	A	HARITOS
	MCCINTY	R.		H	89-NA-188	A	WAKSMAN
	MCPEEKING	P.ELLIAR		H	89-PM-270	A	WAKSMAN
	MELLIAIR-SPITH	JUDEA		H	89-NN-281	A	SCHLOSSBER
	PEARL	MARK		H	89-NP-049	A	BARGUCH
	RCCWELL	CHELDON		G	89-NM-324	A	NACHMAN
	RCSS	GEORGE		G	89-NM-436	A	ULRICH
	ROUSSAS	GALEN		D	89-NC-113	A	BERRY
	STUCKY	NORMAN		H	89-AL-085	A	TANGNEY
	WEINBERGER	FRANK		S	89-NL-174	A	BERRY
	WEBLIN	IRVING			89-NL-125	A	WEINSTOCK
	ZUCKER	FRANCES			89-NE-194	A	PERRY
UNIV OF CALIFORNIA, SAN DIEGO	HELLMAN	DANIEL		F	89-NL-119	A	DAVIS
	KRIKE	BHIMSEN		K	89-NM-271	A	PAROUCH
	SRIVAMOGGI	TCDD		F	89-NH-454	A	HELIN
	OLFOND	HUTTENLOCHER	JANELLEN		89-NL-179	A	BERRY
UNIV OF CENTRAL FLORIDA	OKA	TAKESHI	EVE		89-N-140	A	FRFGLY
UNIV OF CHICAGO	VAN CAUTER	EV			89-NL-152	A	DAVIS
	BRYC	WLODZIMIERZ	K		89-NM-185	A	PAROUCH
	GHIA	LEHMAN	MICHAEL	N	89-N-205	A	HELIN
					89-NL-144	A	BERRY

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF COLORADO	STCJANOVIC	SADJAN		39-NM-395	A	NACHMAN
	WALKER	BRUCE	K	89-NM-180	A	PAROUCH
	DOUGLAS	KENNETH		89-NC-145	A	BURGGRAF
	NESBITT	DAVID	J	89-NC-162	A	WODARCZYK
	SCHWARTZ	MICHAEL	F	89-NC-198	A	WODARCZYK
UNIV OF CONNECTICUT	GLAZ	JOSEPH		89-NM-405	A	WAKSMAN
UNIV OF CONNECTICUT	KIP	DUCK	O	89-NL-096	A	NACHMAN
UNIV OF DAYTON	KRISHNAMURTHY	L		89-NA-153	A	TANGNEY
UNIV OF DELAWARE	ACVANI	SURESH	G	89-NC-214	A	MCMICHAEL
	BRILL	THOMAS	B	89-NA-138	A	ULRICH
	MICHAELIDES	EPISTATHIOS	E	89-NA-204	A	SCHICLER
	WONG	EVIA		89-NL-182	A	BIRKAN
	PERRY	CAROLE		89-NC-170	A	TISHKOFF
	WEST	JON		89-NC-213	A	TANGNEY
	BRITCN	BRUCE	K	89-NL-159	A	ULRICH
	LEE	H.		89-NM-425	A	DAVIS
UNIV OF GEORGIA	GALBRAITH	Roderick	A	89-NA-141	A	NACHMAN
UNIV OF GLASGOW	FADLEY	CHARLES	S	89-NP-036	A	MELIN
UNIV OF HAWAII	ACHMUTY	GILES		89-NM-178	A	SCHLOSSBER
UNIV OF MCMASTER	BREITMEYER	BRUNO	G	89-NL-095	A	NACHMAN
	GLOWINSKI	RCLANC		89-NM-371	A	TANGNEY
	MSL	THOMAS	T	89-NA-197	A	CROWLEY
	HU	SAMBITI		89-NP-369	A	WU
	ADESTICA	ILIESANMI		89-NP-062	A	NACHMAN
	APLUJA	NARENDR		89-NM-396	A	WAKSMAN
	BEDDINI	ROBERT	A	89-NA-111	A	BIRKAN
	EDEN	J.		89-NP-061	A	SCHLOSSBER
	GILLETT	MARTHA	U	89-NL-135	A	BERRY
	KARALAMANGALA			89-NM-239	A	BAROUCH
	SACKS	JEROME	S	89-NM-235	A	TANGNEY
	GUTH		L	89-NL-184	A	ULRICH
UNIV OF INDIANA	JONSON	RALPH	F	89-NL-122	A	BERRY
UNIV OF IOWA	LOHRMAN	DAVID	F	89-NL-101	A	TANGNEY
	JUCLA	JAMES	F	89-NL-179	A	FREGLY
UNIV OF KANSAS	RISHEL	RAYMOND	H	89-NC-431	A	NACHMAN
UNIV OF KENTUCKY RESEARCH FOUNDATION	JENSEN	S.		89-NP-094	A	SCHLOSSBER
UNIV OF LOWELL	ALEXANDER	JAMES	C	89-NM-201	A	NACHMAN
UNIV OF MARYLAND	BASILI	Victor	R	89-NM-393	A	WAKSMAN
	DESTLER	WILLIAM	H	89-NP-136	A	BARKER
				99-NP-142	A	STEWART
UNIV OF MARYLAND BALTIMORE COUNTY	SEIDMAN	G.		89-NM-402	A	THOMAS
UNIV OF MASSACHUSETTS	CRFFT	THOMAS	I	89-NM-382	A	NELSON
	GGAG	HO		89-NM-359	A	NACHMAN
	KARASZ	WEI-BC		89-NM-228	A	WAKSMAN
	LEE	FRANK	E	89-NC-212	A	CROWLEY
UNIV OF MIAMI	EDWARD	EDWARD	T	99-NA-445	A	ULRICH
						NACHMAN

INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PN NAME
UNIV OF MICHIGAN	CALAHAN	DCNALC	A	89-NM-400	WAKSMAN	
	DAHM	WERNER	J	89-NA-201	TISHKOFF	
	FAETH	GERARD	H	89-NA-185	A	
	KHARGONEKAR	P.	P	89-NM-358	CROWLEY	
	CHERKASSKY	VALDIVIR	L	89-NE-191	GILES	
	ERICKSEN	JERALC			NACHMAN	
	HALBERG	FRANZ	J	89-NM-236	A	
	JONES	TERRY		89-NM-325	A	
	MILLER	DOUGLAS		99-NL-173	BERRY	
	TANNENBAUM	ALLEN		89-NP-138	RADOSKI	
	OEFACIO	BRIAN		89-NL-192	GILES	
	EL-SAYED	MCHAMED		89-NM-336	CROWLEY	
	GIBBS	FINLEY		89-NM-268	A	
	HANDEL	PETER	H	89-NM-449	NACHMAN	
	KRISHNAPURAM	RAGHU		89-NL-129	BERRY	
	MOSTAFAVI	MASQUD		89-NE-104	WITT	
	RESCH	GARTH		89-NM-190	GILES	
	VENTURA	JGSE	E	89-AP-139	BARKER	
	WELSH	WILLIAM	A	89-NL-160	BERRY	
	DECGLAN	JITENDER		89-NM-448	NACHMAN	
	DCLGLAS	RODNEY		89-NC-161	DAVIS	
	FARR	LYNN		89-NM-420	NACHMAN	
	SIAIGH	SAJHEERA		89-AP-413	NACHMAN	
	BLUECK	S		89-NL-126	BERRY	
	HALL	JCSEPH		89-NM-394	NACHMAN	
	TIWARI	RAM		89-NC-046	SCHLOSSBER	
	JERATH	SUKHVARSH		89-NL-099	TANGNEY	
	COLLIN	RCBERT		89-NM-413	BARKER	
	NELBERGER	JCHN		89-NM-439	NACHMAN	
	E KINNMARK	INGEMAR		89-NC-176	MATUSZKO	
	CRASEY ANN	BERND		89-NM-342	NELSON	
	GERNSBACHER	MORTON		89-NM-451	NACHMAN	
	ACLER	NCRMAN		89-NL-151	KELLEY	
	BALER	MARK		89-NL-151	FREGLY	
	DINGES	DAVID		89-NL-128	BERRY	
	MC EACHRON	DCNALD		89-NL-150	BAROUCH	
	MINTZ	MAX		89-NM-406	WAKSMAN	
	PRYWES	NCAM		89-NC-189	A	
	CHIARULLI	DCNALC		89-NE-189	GILES	
	GCLODBRG	WALTER		99-NA-179	MCMICHAEL	
	HALL	RICHARD		89-NM-424	NACHMAN	
	MONK	TIMOTHY		89-NL-132	BERRY	
	SWITZER	JAY		89-NC-148	WILKES	
	CRUCKSHAOK	ALEXANDER		89-NE-063	GILES	
	EARNEST	DAVID		99-NL-138	BERRY	
	EBERLY	J.		89-NP-132	KELLEY	
	JENEKE	SAMSON	A	89-NC-138	ULRICH	

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UNIV OF SOUTHERN CALIFORNIA	MEYERHOFFER	DAVID	D	99-NP-131	KELLEY	
UNIV OF SOUTHERN CALIFORNIA	MUKAMEL	SMUAL		89-NC-163	CAVIS	
UNIV OF SOUTHERN CALIFORNIA	WALMSLEY	IAN	A	99-NC-165	CAVIS	
UNIV OF SOUTHERN CALIFORNIA	HALL	LAWRENCE	O	89-NM-391	NACHMAN	
UNIV OF SOUTHERN CALIFORNIA	LINDSEY	BRUCE	G	89-NL-067	BERRY	
UNIV OF SOUTHERN CALIFORNIA	BANKS	M.	T	89-NM-397	NACHMAN	
UNIV OF SOUTHERN CALIFORNIA	MACHUKAR	ANUPAM		99-NE-87	LITTON	
UNIV OF SOUTHERN CALIFORNIA	MASRI	SAMI	F	89-NA-119	AMOS	
UNIV OF SOUTHERN CALIFORNIA	SAFONOV	MICHAEL	G	89-NM-355	CROWLEY	
UNIV OF SOUTHERN CALIFORNIA	STAGER	LAWRENCE	A	89-NC-213	MATUSZKO	
UNIV OF SOUTHERN CALIFORNIA	MIANG	KAI		89-NE-211	GILES	
UNIV OF SOUTHERN CALIFORNIA	ALEXEFF	IGOR		89-NP-042	BARKER	
UNIV OF SOUTHERN CALIFORNIA	RAJPUT	SALRAM	S	99-NM-364	BAROUCH	
UNIV OF SOUTHERN CALIFORNIA	MCCAY	MARY	H	89-NE-213	ROSENSTEIN	
UNIV OF SOUTHERN CALIFORNIA	CATTATREYA	G.	P	89-NM-465	NACHMAN	
UNIV OF SOUTHERN CALIFORNIA	AGGARWAL	J.	K	89-NC-267	WAKSMAN	
UNIV OF SOUTHERN CALIFORNIA	BARNES	J.	W	89-NM-401	WAKSMAN	
UNIV OF SOUTHERN CALIFORNIA	CCCKE	DANIEL	E	99-NC-230	WAKSMAN	
UNIV OF SOUTHERN CALIFORNIA	COLLING	W.	J	89-AL-181	TANGNEY	
UNIV OF SOUTHERN CALIFORNIA	FERRARI	JCHN	P	89-NC-172	ULRICH	
UNIV OF SOUTHERN CALIFORNIA	KELLER	G.	R	89-NP-044	SMITH	
UNIV OF SOUTHERN CALIFORNIA	KENNON	STEPHEN	R	89-NM-434	NACHMAN	
UNIV OF SOUTHERN CALIFORNIA	LACDE	GANGARAM	S	89-NC-377	NACHMAN	
UNIV OF SOUTHERN CALIFORNIA	LANGBOOTHAP	HAROLC	G	89-NM-356	BAROUCH	
UNIV OF SOUTHERN CALIFORNIA	NTAFOS	SIMEON	C	89-NH-415	NACHMAN	
UNIV OF SOUTHERN CALIFORNIA	SACHEZ	ISAAC		89-NC-158	ULRICH	
UNIV OF SOUTHERN CALIFORNIA	VEKATESAN	SUBBARAM		89-NL-137	BERRY	
UNIV OF SOUTHERN CALIFORNIA	DAFNY	NACHUM		89-NH-444	NACHMAN	
UNIV OF SOUTHERN CALIFORNIA	THEODOSIU	C.	E	89-NP-051	KELLEY	
UNIV OF SOUTHERN CALIFORNIA	MRCOSVSKY	N.	C	89-NC-117	BERRY	
UNIV OF SOUTHERN CALIFORNIA	MATTIS	DANIEL	N	89-NE-094	WEINSTOCK	
UNIV OF SOUTHERN CALIFORNIA	RCWSEMITT	CAROL	N	89-AL-139	BERRY	
UNIV OF SOUTHERN CALIFORNIA	VARDENY	ZEVV	Y	89-NC-153	MATUSZKO	
UNIV OF SOUTHERN CALIFORNIA	DUCHSTUN	KURT	E	89-NC-191	A	NACHMAN
UNIV OF SOUTHERN CALIFORNIA	BLOCK	GENE	D	89-NC-141	BERRY	
UNIV OF SOUTHERN CALIFORNIA	FARMER	B.	L	99-NC-151	CAVIS	
UNIV OF SOUTHERN CALIFORNIA	MEAKER	MICHAEL	9.	89-NL-140	BERRY	
UNIV OF SOUTHERN CALIFORNIA	MEYER	DAVID	G	39-NM-373	CROWLEY	
UNIV OF SOUTHERN CALIFORNIA	PAFANTONI-KAZAKCS	P.		89-NC-113	WAKSMAN	
UNIV OF SOUTHERN CALIFORNIA	WOOD	MCUSTCN	G	89-NH-423	PCMICHAEL	
UNIV OF SOUTHERN CALIFORNIA	CRIMINAL	W.	O	89-NA-113	DAVIS	
UNIV OF SOUTHERN CALIFORNIA	HELLER	E	J	99-NC-164		
UNIV OF SOUTHERN CALIFORNIA	LAIN	RICHARD	H	99-AC-173	ULRICH	
UNIV OF SOUTHERN CALIFORNIA	PIETRO	WILLIAM	J	89-NC-121	ULRICH	
UNIV OF SOUTHERN CALIFORNIA	AMAND	RYCICHI	S	89-NM-381	NACHMAN	
UNIV OF SOUTHERN CALIFORNIA	BUCKLEW	JAMES	A	99-AM-357	BAROUCH	
UNIV OF SOUTHERN CALIFORNIA	LOVELL	EDWARD		99-NA-125	AMOS	
UNIV OF WASHINGTON						
UNIV OF WISCONSIN						

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MCMAHON	ROBERT	J		89-NC-157	ULRICH	
PIETRO	WILLIAM	J		89-NC-096	ULRICH	
WAIBA	GRACE			89-NC-122	ULRICH	
SAET	YULY			89-NM-362	BAROUCH	
BUCK	ERIK	S		89-NP-349	NACHMAN	
JAGANNATHAN	PETER	V		89-NP-076	BARKER	
PRCNKO	RICHARD	P		89-NE-077	WITT	
MATEJKA	RAUL			89-NE-084	WAKSMAN	
UNIVERSAL TECHNOLOGY CORP.	KLAAS			89-NL-312	BERRY	
UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO	ALGILAR-RCBLEIRO			89-NL-169	WODARCZYK	
UNIVERSITAT KAISERSLAUTERN	BIGGS			89-NC-194	CAVENDER	
UNIVERSITY OF ALABAMA	ALBERT	H		89-XC-009	SAKELL	
VRA, INC.	CLARK	H		89-NA-102	WAKSMAN	
VANCE SYSTEMS, INC.	L.	H		89-NM-295	RANKIN	
VANDERBILT UNIVERSITY	MARK	N		89-NM-182	GILLES	
ELLINGHAM	JANOS			89-NE-097	BURGGRAF	
SZTIPANOVITS	NORMAN			89-NC-179	TANGNEY	
TOLK	J			89-NA-080	HELIN	
LCGAN	LAWRENCE	R		89-NE-165	GILES	
LANGLEY	MILAN			89-NA-115	MCMICHAEL	
KARSPECK	THORWALD			89-NA-118	WAKSMAN	
HERBERT	J.	G		89-NM-171	WAKSMAN	
CALDWELL				89-NA-175	WITT	
DEYHINY	IRA			89-NE-174	SCHLOSSBER	
ZHANG	YOU-WEN			89-NP-112	BAROUCH	
OVERTON	ROBERT	H		89-NM-287	TISHKOFF	
JIAN-BANG	LIU			89-NA-157	GLASSMAN	
ARIYAWANSA	K			89-NM-366	NACHMAN	
RCCIN	ERVIN	A		89-NM-430	NACHMAN	
TARN	TYEH-JONG			89-NM-413	NACHMAN	
IBRAHIM	RAOUF	A		89-NN-367	WAKSMAN	
LEI	JIA-GUU			89-NP-404	BOYCE	
SANDLER	IVAN	S		89-NA-071	NELSON	
WRIGHT	JOSEPH	P		89-NA-186	AMOS	
DARROW	JANET	H		89-NL-143	BERRY	
HATTORI	HARUMI			89-NM-200	NACHMAN	
LI	DENING			89-NM-202	D	
PETERSEN	JEFFREY	L		89-NC-095	MATUSZKO	
ZHANG	CUN-QIAN			89-NM-243	HOLLAND	
WOJCIK	ZBIGNIEW			89-NM-263	WAKSMAN	
WICHITA STATE UNIVERSITY				89-NM-397	NACHMAN	
WELLESLEY COLLEGE				89-NC-095	BAROUCH	
WEST VIRGINIA UNIVERSITY				89-NM-246	NACHMAN	
WORCESTER POLYTECHNIC INSTITUTE				89-NM-241	NACHMAN	
WRIGHT STATE UNIVERSITY				89-NM-305	NACHMAN	
XQX CORP.	HEISSALL			89-NM-252	NACHMAN	
XAVIER UNIVERSITY	SHARMA, PR-O			89-NP-091	RADOSKI	
XONTECH INC (FORMERLY XONICS INC)	FAY			89-NP-074	KELLEY	
YALE UNIVERSITY	EDWARD					

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YALE UNIVERSITY SCHOOL OF MEDICINE	A.	JCY		89-NP-134	KELLEY	
YELLOWSTONE ENVIRONMENTAL SCIENCE	HIRSCH	ANTHONY		89-NL-186	TANGNEY	
	VAN DEN PCL	ROBERT	N	89-NL-154	SERRY	
	HUNTER		H	89-NL-111	CERVENY	

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	FM NAME
HERZENBERG	HERZENBERG	A.	JCY		89-NP-134	KELLEY	
HIRSCH	HIRSCH	ANTHONY			89-NL-186	TANGNEY	
VAN DEN PCL	VAN DEN PCL	ROBERT	N		89-NL-154	SERRY	
HUNTER	HUNTER		H		89-NL-111	CERVENY	

PART II

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PROPOSAL STATUS REPORT (1 JAN 85 - 31 MAR 89)
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TITLE	TYPE	MONTHS	STATUS	PROGRAM MANAGER	INITIATE
TITLE (CONT.)	RECEIVED	RECEIVED	PROPOSAL #	START DATE	
INSTITUTION	AMOUNT	AMOUNT		TTT AMT	
ADAPTIVE CONTROL OF NONLINEAR FLEXIBLE SYSTEMS INTEGRATED SYSTEMS, INC.	ROBERT KOSUT	N 36 \$352,436	AMOS 89-NA-083	07/01/89	
ANALYTICAL AND EXPERIMENTAL STUDIES OF INHERENTLY NONLINEAR COMPENSATORS UNIV OF SOUTHERN CALIFORNIA	SAMI MASRI	N 36 \$373,201	AMOS 89-NA-119	03/02/89	
DEPLOYMENT VIBRATIONS OF SPACECRAFT APPENDAGES WITH PAYLOADS UNIV OF WISCONSIN	EDWARD LOVELL	N 12 \$47,000	AMOS 69-NA-135	07/02/89	
INVESTIGATION OF LIQUID SLOSHING IN SPIN-STABILIZED SATELLITES IOWA STATE UNIV CF SCIENCE AND TECH	JOSEPH BAUMGARTEN	R 36 \$289,135	AMOS 89-NA-136	07/02/89	
(SBIR) PROBABILISTIC STRUCTURAL MECHANICS RESEARCH FOR PARALLEL PROCESSING COMPUTERS APPLIED RESEARCH ASSOCIATES INC.	SUES ROBERT	N 06 \$49,900	AMOS 89-NA-158	21/02/89	
(SBIR) PREDICTION OF FLUTTER IN PANELS MADE FROM ADVANCED COMPOSITE MATERIALS ANAMEL LABORATORIES, INC.	ARNOLC ROCKY	N 06 \$49,296	AMOS 89-NA-159	21/02/89	
(SBIR) EXPERIMENTAL METHODS AND INSTRUMENTATION FOR EVALUATING PASSIVE DAMPING OF MATERIALS FOR SPACE STRUCTURES SEB ENGINEERING, INC.	T	N 06 \$55,580	AMOS 89-NA-160	21/02/89	
STRUCTURAL RELIABILITY-CUM-UNCERTAINTY ANALYSIS EDA CONSULTANTS	SUNDARAJAN CHELLIAH	N 06 \$47,531	AMOS 89-NA-161	21/02/89	
(SBIR) REAL-TIME, LONG-TERM MEASUREMENT OF MATERIAL CYANIC PROPERTIES IN SPACE SPARTA INC	GEORGE LESIEUTRE	N 06 \$45,997	AMOS 89-NA-162	21/02/89	

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TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE
INSTITUTION			AMOUNT	PROPOSAL #		START DATE
						TO ANT
(SBIR) MULTI-DISCIPLINE ANALYSIS/OPTIMIZATION METHODOLOGY DEVELOPMENT RELATING TO STRUCTURES CASE AEROSPACE	A801	F	N 06 21/02/89 \$48,979	AMOS	39-NA-166	
(SBIR) A NEW DESIGN OF A PASSIVELY DAMPED JOINT FOR LARGE SPACE STRUCTURES	ADVANCED COMPOSITE ENGINEERING, INC.	SUN	N 06 21/02/89 \$49,480	AMOS	89-NA-167	
(SBIR) AUTOMATED TESTING PROCEDURES FOR COMPUTATIONAL MECHANIC SOFTWARE	WEIDLINGER ASSOCIATES	WRIGHT	N 06 21/02/89 \$49,693	AMOS	89-NA-168	
TRANSFORM METHODS FOR PRECISION NONLINEAR WAVE MODELS OF FLEXIBLE SPACE STRUCTURES	PHOTON RESEARCH ASSOCIATES INC.	TURNER	N 06 24/02/89 \$10,000	AMOS	A 89-NA-177	\$10,000 01/03/89 \$10,000
IMPROVED COMPUTATIONAL STRATEGY FOR PREDICTING THE RESPONSE OF COMPLEX SYSTEMS	GEORGE WASHINGTON UNIVERSITY	NOCCR	N 06 24/02/89 \$10,000	AMOS	A 89-NA-178	\$10,000 01/03/89 \$10,000
MODELING AND CONTROL OF MULTI-LINK FLEXIBLE ARTICULATED STRUCTURES	STANFORD UNIVERSITY	ANNON	N 36 19/03/89 \$478,400	AMOS	A 89-NA-191	
COMPUTER DERIVATION OF GREEN'S FUNCTIONS FOR STRUCTURAL DYNAMIC ANALYSIS	AEDAR CORPORATION	JAMES	R 24 18/03/89 \$150,000	AMOS	A 89-NA-192	\$15,000 01/07/89 \$150,000
FINITE ELEMENT ANALYSIS OF COMPOSITE SHELLS	AIR FORCE INSTITUTE OF TECHNOLOGY	ANTHONY	N 36 22/03/89 \$145,399	AMOS	A 89-NA-200	\$72,040 01/07/89 \$145,399
PULSE PROBING AND DECONVOLUTION IN THE DYNAMIC CHARACTERIZATION OF STRUCTURAL NATIONAL BUREAU OF STANDARDS	SIMIU	EMIL	N 07 28/03/83 \$187,500	AMOS	A 89-NA-203	\$37,500 01/03/89 \$37,500

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PICOSECOND LASER BREAKDOWN THRESHOLDS IN GASES			R 17 17/01/89 \$110,000	A BIRKAN 89-NA-103	\$69,977 01/09/89 \$110,000
TENNESSEE UNIV SPACE INSTITUTE	KEEFER	CENNIS			
PROPULSION RESEARCH ON THE HYBRID PLUME PLASMA ROCKET			N 05 25/01/89 \$75,000	A BIRKAN 89-NA-106	\$75,000 01/09/89 \$75,000
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	YANG	T			
TRANSPORT PROCESSES IN BEAMED-ENERGY PROPULSION SYSTEMS			R 18 31/01/89 \$142,450	A BIRKAN 89-NA-111	\$42,081 01/09/89 \$143,450
UNIV OF ILLINOIS	BEDOKKI	ROBERT			
THERMAL DECOMPOSITION MECHANISMS OF NEW POLYCYCLIC NITRAPHINES			R 24 13/02/89 \$199,761	A BIRKAN 89-NA-138	\$99,803 20/09/89 \$199,761
UNIV OF DELAWARE	BRILL	THOMAS			
A CHEMICAL KINETIC DATA BASE FOR PROPELLANT COMBUSTION			N 12 14/02/89 \$40,000	A BIRKAN 89-NA-142	\$40,000 01/06/99 \$40,000
NATIONAL BUREAU OF STANDARDS	TSANG	WING			
(SBIR) DEVELOPMENT AND APPLICATION OF NEW THEORIES... TEMPERATURE TRANSIENT CALCULATION IN SOLID PROPELLANT			N 06 17/02/89 \$50,000	D BIRKAN 89-NA-144	
ALADAR STOLMAR	STOLMAR	ALADAR			
(SBIR) AN EXPERIMENTAL INVESTIGATION OF COMBUSTION INSTABILITY PHENOMENA IN LIQUID-FUELLED ROCKET ENGINES			N 06 17/02/89 \$49,956	BIRKAN 89-NA-145	
AEROMETRICS, INC.	BACHALO	WILLIAM			
(SBIR) STUDY OF COMBINES MHD AND LASER ABSORPTION WAVES IN HYBRID LASER AND PLASMA THRUSTERS			N 06 17/02/89 \$5,462,386	BIRKAN 89-NA-146	
ANALOG INC	CAMBIER	JEAN-LUC			
(SBIR) OBJECTIVE MATERIAL TREATMENT FOR STRUCTURAL ANALYSIS			N 06 06/01/89 \$49,938	BOYCE 89-NA-071	
WEILINGER ASSOCIATES	SANDLER	IVAN			

TITLE	TITLE (CONT.)	INVESTIGATOR	INSTITUTE	TYPE/MONTHS	STATUS RECEIVED	PROGRAM MANAGER	PROPOSAL #	INITIATE DATE	START DATE	TOT AMT
STRAIN-ENTROPY MODELING OF BLAST INDUCED SOIL LIQUEFACTION		CHARLIE WAYNE	COLORADO STATE UNIVERSITY	N 36	11/01/89 \$250,564	BOYCE	89-NA-087			
(SBIR) A RATE-SENSITIVE CONTINUUM DAMAGE MODEL FOR NONCLASSICAL MATERIALS	BERKELEY APPLIED SCIENCE & ENGR.	PANAYANDEH	BERKELEY APPLIED SCIENCE & ENGR.	N 06	11/01/89 \$49,441	BOYCE	89-NA-099			
(SBIR) NUMERICAL MODELING OF GEOMECHANICAL PROBLEMS		IOANNIS VARDULAKIS	ITASCA CONSULTING GROUP INC	N 06	11/01/89 \$45,380	BOYCE	89-NA-096			
SUPER COMPUTER TIME CRAY-2, FOR PI BLOUIN-ARA	AIR FORCE WEAPONS LAB	BURNETTE		N 09	12/01/89 \$600	BOYCE	89-NA-098	\$600	01/01/89	\$600
CORE SUPPORT FOR THE GEOTECHNICAL BOARD	NATIONAL ACADEMY OF SCIENCES	RILEY	CHUNG	N 21	01/02/89 \$40,000	BOYCE	89-NA-116	\$20,000	01/06/89	\$40,000
(SBIR) IN-SITU DETERMINATION OF THE CYNAMIC PROPERTIES OF SOILS	SCIENCE AND TECHNOLOGY RESEARCH INC	QI	G	N 06	06/02/89 \$49,807	BOYCE	89-NA-123	\$168,968		
CONSTITUTIVE AND MICROMECHANICAL STRESS-STAIN MODELING	RENSSELAER POLYTECHNIC INSTITUTE	RICARDO	CCORY	N 12	07/02/89 \$163,968	BOYCE	89-NA-132	\$168,968	05/06/89	\$168,968
EXPERIMENTAL STUDY OF NONASSOCIATED FLOW AND INSTABILITY OF FRICTIONAL MATERIALS	UNIV OF CALIFORNIA	POUL LADE		N 24	07/02/89 \$174,629	BOYCE	89-NA-133			
(SBIR) DEVELOPMENT OF MICROMECHANICALLY BASED CONTINUUM MODEL FOR CISCNTINUM ANALYSIS	ITASCA CONSULTING GROUP INC	PETER CUNDALL		N 06	22/02/89 \$45,945	BOYCE	89-NA-174			

TITLE	TYPE/MONTHS	STATUS	PROGRAM MANAGER	INITIATE
TITLE (CONT.)	RECEIVED	PROPOSAL #	PROPOSAL #	START DATE
INSTITUTION	AMOUNT			TOT AMT
DEVELOPMENT AND APPLICATION OF ANALYSIS METHODS FOR ELECTRICAL PROPERTIES OF COMPOSITES	N 06	06/01/89	MARITOS	
MATERIALS SCIENCES CORPORATION	\$5C,000			89-NA-074
(SBIR) ATOMISTIC AND MACROSCOPIC MODELLING OF MECHANICAL BEHAVIOR OF MULTIPHASE MATERIALS	N 06	06/01/89	MARITOS	
CHEMICAL DYNAMICS CORPORATION	\$45,982			89-NA-078
(SBIR) DEVELOPMENT OF AN ADVANCED CONTINUUM THEORY FOR COMPOSITE LAMINATES	N 06	A		
BERKELEY APPLIED SCIENCE & ENGR.	06/01/89	MARITOS		949-140
CHAMIMATI	\$49,140			01/07/89
(SBIR) DEVELOPMENT AND APPLICATION OF NEW THEORIES AND CONCEPTS RELATING TO STRUCTURES	N 06			
MATERIALS SCIENCES CORPORATION	07/01/89	MARITOS		949-140
(SBIR) MICRO AND MACRO MODELS OF FRICTION AND DAMAGE OF METALLIC INTERFACES	N 06			
COMPUTATIONAL MECHANICS COMPANY INC	07/01/89	MARITOS		
TWORZYDLC	\$49,980			89-NA-030
CAMAGE TOLERANCE OF LAMINATED COMPOSITES TO IMPACT	N 36			
STANFORD UNIVERSITY	07/01/89	MARITOS		
CHANG	\$293,068			99-NA-032
FLOW SENSITIVITY IN CERAMIC-MATRIX COMPOSITES	N 25			
CARNEGIE-MELLON UNIVERSITY	17/01/89	MARITOS		
STEIF	\$251,583			99-NA-104
AN ANISOTROPIC MODEL OF COUPLED DAMAGE MECHANICS AND FINITE PLASTICITY FOR DUCTILE FRACTURE	N 36	D		
LOUISIANA STATE UNIVERSITY	31/01/89	MARITOS		
VOYIAJES	\$294,914			89-NA-109
CHAOTIC BEHAVIOR OF MODIFIED STOKER COLUMN, AND OF FORCED AUTONOMOUS FLUIDELASTIC OSCILLATORS	N 12			
MATICAL INST. OF STANDARDS & TECHNOLOGY	31/01/89	MARITOS		
SIMIL	\$8,000			89-NA-110

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TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE
INSTITUTION			AMOUNT	PROPOSAL #		START DATE
(SBIR) A GROUP CONTRIBUTION METHOD FOR THE MECHANICAL PROPERTIES OF AEROSPACE EPOXY RESINS			N 06 21/02/89 \$49,650			TOT Amt
ADVANCED MATERIALS DESIGN, INC.	KULSHRESTHA	ALOK				
(SBIR) A TREATISE ON STOCHASTICITY OF THE NONLINEAR RESPONSE AND DEGRADATION OF CARBON-CARBON STRUCTURES IN HYPERSONIC ENVIRONMENT			N 06 21/02/89 \$62,570		MARITOS	89-NA-163
INTEGRATED AEROSPACE SCIENCES CORP.	BOFILIOS	CIMITRI				
(SBIR) MODELING OF FAILURES AND DELAMINATION BUCKLING AND GROWTH IN COMPOSITE LAMINATES			N 06 22/02/89 \$50,000		MARITOS	89-NA-164
TECHNALYSIS INC	AKAY	HASAN				
(SBIR) THE KINETIC FORMULATION OF THE EMBODIMENT-INDUCED DEGRADATION OF MECHANICAL PROPERTIES IN CERAMIC OR GLASS COM MAT			N 06 22/02/89 \$27,989		MARITOS	89-NA-169
ANM COMPANY	AMN	TAE				
(SBIR) A METHOD FOR PREDICTING PERMANENT DEFORMATION AEROSPACE STRUCTURES OF METAL MATRIX COMPOSITES SUBJECTED TO THERM-MECHANIC SUN			N 06 22/02/89 \$49,480		MARITOS	89-NA-170
ANMET LABORATORIES, INC.	C					
(SBIR) METHODOLOGY FOR MODELLING THE STRUCTURAL RESPONSE OF MULTI-LAYERED COMPOSITES			N 06 22/02/89 \$49,800		MARITOS	89-NA-171
APTECH ENGINEERING SERVICES, INC.	CIPOLLA	RUSSELL				
(SBIR) CONSTITUTIVE EQUATION DETERMINATION INTO THE LARGE STRAIN REGIME			N 06 22/02/89 \$48,979		MARITOS	89-NA-172
ATKINSON-NOLAND & ASSOCIATES INC	ATKINSN	F. H.				
HIGH PERFORMANCE LAMINATED COMPOSITES			N 36 18/03/89 \$790,909		MARITOS	89-NA-173
LINV OF CALIFORNIA	MCWEEKING	R.				
MECHANICS IN MATERIAL SPACE			N 24 18/03/89 \$176,038		MARITOS	89-NA-189
STANFORD UNIVERSITY	HERRMANN	GEORGE				

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
MECHANICS OF FAILURE OF H.T. AAC		N 36 18/03/89 \$299,957	MARITOS 89-NA-194		
ROCKWELL INTEK. RESER.E&DEV. CENTER	COX	BRIAN			
(SBIR) A STUDY OF TURBULENCE EFFECTS IN TRANSPERSION COOLING		N 06 06/01/89 \$55,000	HELIN 89-NA-068		
NIELSEN ENGINEERING AND RESEARCH CO					
EIOTICS INTERNATIONAL INC.	NIKON	DAVID			
(SBIR) DYNAMIC STALL CONTROL USING VORTEX BLOWING		N 06 06/01/89 \$59,825	HELIN 89-NA-069		
ELIOTICS INTERNATIONAL INC.	NG	T. TERRY			
(SBIR) A NEW ADAPTIVE NUMERICAL APPROACH FOR SIMULATING THE VORTEX SWEEPING IN HIGH REYNOLDS NUMBER VISCOUS FLOW	LU	N 06 11/01/89 \$49,972	HELIN 89-NA-091		
INTELLIGENT SYSTEMS INTEGRATION INC.	Z				
ARO MIPR FOR LTRC/CARTA		N 24 25/01/89 \$146,000	HELIN 89-NA-105	\$56,000	A
ARMY RESEARCH OFFICE	COLIGALSKI	TOM			
INSTADY FLOW FIELD OF LARGE-AMPLITUDE PITCHING AIRFOILS		N 24 27/01/89 \$134,954	HELIN 89-NA-108	\$100,000	A
MICHIGAN STATE UNIVERSITY	KOOCFESFAHIZ	MANDOCHENR			
(SBIR) FINITE ELEMENT ANALYSIS OF FLUID-STRUCTURE INTERACTIONS		N 06 06/02/89 \$48,700	HELIN 89-NA-124	\$105,000	A
PARALLEL LOGIC SYSTEMS	CHILUKURI	R			
(SBIR) COLOR STEREOGRAPHIC PROJECTION FOR 3-D FLUID FLOW USING LOW COST COMPUTERS		N 06 06/02/89 \$49,758	HELIN 89-NA-125	\$56,052	A
ADVANCED PROJECTS RESEARCH INC	PEPPER	CARRELL			
AN ASPECT OF DYNAMIC STALL DEVELOPMENT		N 24 14/02/89 \$114,682	HELIN 89-NA-141	\$114,682	A
UNIV OF GLASGOW	GALBRATH	GOERICK			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TCT AMT
(SBIR) HEAT FLUX MICROSENSOR DEVELOPMENT VATELL CORPORATION	LANGLEY LAWRENCE	N 06 21/02/89 \$50,061	MELIN 89-NA-165	\$85,092 01/06/89 \$86,092
IMPROVING VISCOUS DESIGN AND ANALYSIS METHODS FOR TRANSONIC COMPRESSOR BLADING MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CROLEA PARK	N 12 22/02/89 \$86,092	A MELIN 89-NA-175	\$85,092 01/06/89 \$86,092
STUDY OF MASSIVE ENHANCEMENT OF HEAT TRANSFER FOR TURBULENT BOUNDARY LAYERS ON CONCAVE-SURFACES UNITED TECHNOLOGIES RESEARCH CENTER	BLAIR MICHAEL	N 24 20/03/89 \$199,645	A MELIN 89-NA-199	\$8,000 01/05/89 \$9,000
COMPUTER SUPPORT FOR GHIA/UNIVERSITY OF CINCINNATI, AFOSR-87-0074 UNIV OF CINCINNATI	GHIA K	N 05 28/03/89 \$8,000	A MELIN 89-NA-205	\$8,000 01/05/89 \$9,000
(SBIR) MECHANISMS AND CONTROL OF SUPERSONIC SMEAR LAYERS PHYSICAL SCIENCES INC	LENNER MARTHUT	N 06 06/01/89 \$45,973	MCMICHAEL 89-NA-072	\$49,920 06/07/89 \$49,920
(SBIR) NUMERICAL AND ANALYTICAL STUDIES OF LAMINAR TO TURBULENCE TRANSITION HIGH TECHNOLOGY CORP	MALIK PUJEEB	N 06 09/01/89 \$49,920	A MCMICHAEL 89-NA-034	\$49,920 06/07/89 \$49,920
(SBIR) FEASIBILITY OF LOW-COST MEANS OF CONTAINING ROUGHNESS- INFLUENCES CONVECTIVE DATA APPLICABLE TO THE REENTRY ENVIRONMENT ASTRON RESEARCH & ENGINEERING	DAHM THOMAS	N 06 11/01/89 \$69,560	MCMICHAEL 89-NA-039	\$49,920 06/07/89 \$49,920
(SBIR) TECHNICAL RESEARCH ASSOCIATES, INC TECHNICAL RESEARCH ASSOCIATES INC.	LIESE GREGORY	N 06 11/01/89 \$55,000	MCMICHAEL 89-NA-092	\$49,920 06/07/89 \$49,920
(SBIR) REENTRY VEHICLE SCALLOP-ROUGHNESS CONVECTIVE TRANSFER ASTRON RESEARCH & ENGINEERING	HEYDT RICHARD	N 06 11/01/89 \$65,557	MCMICHAEL 89-NA-093	\$49,920 06/07/89 \$49,920

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INSTITUTION			AMOUNT	PROPOSAL #		TOT AMT
(SBIR) AN INVESTIGATION OF SEVERAL TURBULENCE MODELS FOR COMPLEX ROTOR-STATOR PROBLEMS USING AN ADAPTIVE FINITE ELEMENT PROCEDURE COMPUTATIONAL MECHANICS COMPANY INC	STEWERS	STEVEN	N 06 11/01/89 \$50,000	A 11/01/89 \$50,000	MCMICHAEL 89-NA-094	
(SBIR) A FEASIBILITY STUDY FOR A MICRO-MECHANICAL FLAT PRESSURE SENSOR ANALYTICAL SERVICES & MATERIALS INC	SIDDQUI	SHAHID	N 06 11/01/89 \$50,000	A 11/01/89 \$50,000	MCMICHAEL 89-NA-095	
(SBIR) AERODYNAMICS OF LIFTING JETS AS APPLIED TO AIR CUSHION VEHICLES TECHNOLOGY INC	AKAY	HASAN	N 06 12/01/89 \$50,000	A 12/01/89 \$50,000	MCMICHAEL 89-NA-099	
COMPUTER SUPPORT FOR SIMULATION OF CCUETTE-PCISEUILLE FLOW NASA - AMES RESEARCH CENTER	ROGALLO	R	N 13 25/01/85 \$27,734	A 25/01/85 \$27,734	MCMICHAEL 89-NA-107	\$19,126 01/03/89 \$27,734
EDDY BREAKDOWN AND STRUCTURE DEVELOPMENT UNIV OF WASHINGTON	CRIMINALE	W	N 24 01/02/89 \$30,586	A 01/02/89 \$30,586	MCMICHAEL 89-NA-113	
REAL-TIME ADAPTIVE FEEDBACK CONTROL OF MIXING IN A PLANE SHEAR LAYER UNIV OF ARIZONA	GLEZER	A	N 36 01/02/89 \$299,282	A 01/02/89 \$299,282	MCMICHAEL 89-NA-114	\$118,171 05/06/89 \$239,582
BOUNDARY LAYER CHARACTERIZATION AND THREE-DIMENSIONAL VORTICITY MEASUREMENTS BY RAYLEIGH SCATTERING AND RELIEF MILES PRINCETON UNIVERSITY	RICHARD		N 36 01/02/89 \$951,277	A 01/02/89 \$951,277	MCMICHAEL 89-NA-115	
THREE-DIMENSIONAL STRUCTURE OF BOUNDARY LAYERS IN TRANSITION TO TURBULENCE VIRGINIA POLYTECHNIC INST & STATE UNIV	HERBERT THORWALL		Q 36 02/02/89 \$180,489	A 02/02/89 \$180,489	MCMICHAEL 89-NA-119	
(SBIR) IMPROVED DIAGNOSTICS AND MEASUREMENT FOR MATERIALS PROCESSING AND FLOW SYSTEM SPECIALISTS INC	FOTEFE	WADE	N 06 06/02/89 \$41,205	A 06/02/89 \$41,205	MCMICHAEL 89-NA-129	

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TITLE TITLE (CQNT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE T31 AQT
(SBIR) AN INVESTIGATION OF SMART SKIN TECHNOLOGY FOR VORTEX FLOW DETECTION AND MANIPULATION INNOVATIVE DYNAMICS	HICKMAN GAIL	N 06 06/02/89 \$53,452	MCMICHAEL 89-NA-130	
IMAGE PROCESSING AND ANALYSIS FOR TURBULENT SHEAR FLUX STUDY	ROBERT BROOKLEY	N 36 07/02/89 \$245,759	MCMICHAEL 89-NA-131	
(SBIR) A NEW MAGNETIC FLOWMETER ION PHYSICS CCRP.	MILDE H	N 06 15/02/89 \$50,000	MCMICHAEL 89-NA-143	
PROPOSED STUDY OF TURBULENCE BY PHOTON CORRELATION SPECTROSCOPY	WALTER GOLDBURG	N 16 01/03/89 \$55,000	A MCMICHAEL 89-NA-179	\$55,000 15/06/89 \$55,000
TRANSMISSION OF LIGHT THROUGH A TURBULENT MIXING LAYER	ANATOL ROSHKO	N 36 01/03/89 \$224,616	MCMICHAEL 89-NA-180	
THE STRUCTURE OF SUPERSONIC TURBULENT SHEAR LAYERS	ALEXANDER SMITS	R 18 01/03/89 \$289,712	MCMICHAEL 89-NA-181	
(SBIR) DEVELOPMENT OF A NEW MODEL FOR ANISOTROPIC TURBULENT FLOWS	JEFFREY MARSHALL	N 06 02/03/89 \$45,750	MCMICHAEL 89-NA-185	
(URI) ASYMPTOTIC ANALYSIS OF TURBULENT SHEAR FLOWS: HIGHER-ORDER APPROXIMATIONS UNIV OF DAYTON	KRISTIANMLRTHY L	N 36 21/03/89 \$288,195	MCMICHAEL 89-NA-199	
(SBIR) OPTIMIZATION OF MESHES FOR NUMERICAL SOLUTION OF NAVIER-STOKES EQUATIONS TRICLOUDY SOCIETY, INC.	FRANCIS COUNCIL	N 06 06/01/89 \$50,000	SAKELL 89-NA-073	

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INSTITUTION			AMOUNT	PROGRAM MANAGER PROPOSAL #	TOT AMT
(SBIR) NEW ADAPTIVE GRID GENERATION TECHNIQUE AND ITS APPLICATIONS TO CFD ANALYSIS	CASE AEROSPACE	IDE HIROSHI	N 06 03/01/89 \$47,652	SAKELL 89-NA-085	
ANDERSON CRAY-2 SUPPORT, BEA-89-057			N 09 12/01/89 \$1,000	A SAKELL 89-NA-097	\$1,000
AIR FORCE WEAPONS LAB	LOPEZ	JO ANN	N 09 12/01/89 \$1,000	A SAKELL 89-NA-097	12/01/89 \$1,000
(SBIR) COUPLING GRID ADAPTATION TO AN IMPLICIT NAVIER-STOKES SOLUTION PROCEDURE	AMTEC ENGINEERING INC	IMLAY SCOTT	N 06 12/01/89 \$50,000	SAKELL 89-NA-100	
(SBIR) INNOVATIVE CFD METHODOLOGY FOR COMPLEX AERODYNAMIC FLOW PREDICTION	MANHARDT	P	N 06 12/01/89 \$50,000	SAKELL 89-NA-101	
(SBIR) A THREE-DIMENSIONAL PERFECT-GAS AND EQUILIBRIUM-AIR PAS SCHEME FOR HYPERSONIC BLUNT-BODY FLOWS	VRA, INC	LEWIS CLARK	N 06 12/01/89 \$47,908	SAKELL 89-NA-102	
(SBIR) UNSTEADY BASE PRESSURE	ALMATECH	ADURJAN ALEXANDER	N 06 06/02/99 \$69,899	SAKELL 89-NA-126	
(SBIR) INNOVATIVE STORAGE TECHNIQUES FOR FINITE ELEMENT METHODS	MAINSTREAM ENGINEERING CORPORATION	BUCKMAN JAY	N 06 06/02/89 \$65,928	SAKELL 89-NA-127	
(SBIR) DEVELOPMENT AND APPLICATION OF NEW THEORIES AND CONCEPTS IN HYPERSONIC FLOWS WITH STRONG VISCOUS INTERACTIONS	ASTRAX CORP.	RAGHAVAN V	N 06 06/02/89 \$47,611	SAKELL 89-NA-128	
VORTEX DYNAMICS	LEIBOVICH	SIDNEY	R 24 07/02/89 \$192,024	A SAKELL 89-NA-134	\$193,297 01/06/89 \$152,024
CORNELL UNIVERSITY					

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
(SBIR) DESIGN OF A VISCOMETER-DENSITOMETER FOR REAL-TIME IN-LINE APPLICATIONS AUGUST DESIGN & DEVELOPMENT	J VINCENT FITZGERALD	N 06 23/02/89 \$49,851	A SAKELL 89-NA-176	\$119,791 01/07/89 \$239,791
DEVELOPMENT AND APPLICATION OF NEW ALGORITHMS FOR THE SIMULATION OF COMPRESSIBLE FLOWS WITH MOVING BODIES IN THREE DIMENSIONS	RAINALD LOHNER	N 24 01/03/89 \$239,791	A SAKELL 89-NA-183	\$119,791 01/07/89 \$239,791
ADAPTIVE NAVIER-STOKES CALCULATIONS FOR VERTICAL FLOWS	EARLL MURMAN	R 36 02/03/89 \$496,957	A SAKELL 89-NA-134	\$155,389 01/06/89 \$496,957
NASA Ames Computer Graphics Support For Parviz Moin	HARVARD LOMAX	N 06 15/03/89 \$20,000	A SAKELL 89-NA-187	\$20,000 03/15/89 \$20,000
MODEL FABRICATION AND PRELIMINARY WORK FOR PREPARATION OF WIND TUNNEL TESTS.	MECCA	N 09 20/03/89 \$200,000	A SAKELL 89-NA-195	
COMPUTATIONAL FLUID DYNAMICS RESEARCH ON CYANAMICALLY ADAPTIVE MESH METHODS FOR TRANSONIC FLOWS	JOHN RICHARD HINDMAN	N 36 24/03/89 \$142,315	A SAKELL 89-NA-202	
(SBIR) MODELING OF SCOT FORMATION IN LAMINAR AND PREMIXED TWO-DIMENSIONAL FLAMES	MICHAEL SERIO	N 06 06/01/89 \$69,355	FISHKOFF 89-NA-075	
(SBIR) THE MODELING OF TURBULENT FLAME INSIDE A SUPERSONIC COMBUSTOR	ANDREW SHERMAN	N 06 06/01/89 \$5,860,072	FISHKOFF 89-NA-076	
(SBIR) AN ATOMIZER FOR CORON SLURRY PROPELLANT	PAUL ROTHE	N 06 06/01/89 \$74,604	FISHKOFF 89-NA-077	
CREARE INC. RESEARCH & DEVELOPMENT INC				

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TITLE	TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT AMT
HOLOCINEMATOGRAPHY FOR STUDIES OF TURBULENT MULTIPHASE FLOW		ARMY RESEARCH OFFICE	PANN	N 09/02/89	A	TISHKOFF	\$30,000	\$30,000
FIREBALL COMBUSTION FROM LOW FUEL CONCENTRATION IN AIR		ATHENEX RESEARCH ASSOCIATES	SINGER	N \$30,000		89-NA-137		\$30,000
A NUMERICAL INVESTIGATION OF THE DYNAMIC STRUCTURE OF TRANSITIONAL JET DIFFUSION FLAMES		NATIONAL BUREAU OF STANDARDS	CAVIO	N 13/02/89	D	TISHKOFF	89-NA-139	
(SBIR) COMBUSTION DIAGNOSTIC TESTING USING CONFERENCE INTERFEROMETRY		PHYSICAL OPTICS CORPORATION	AYE	N 13/02/89		89-NA-140		
(SBIR) IMAGE DISSECTION CAMERA		QUANTIC INDUSTRIES, INC.	MC DANIEL	N 17/02/89		TISHKOFF	89-NA-147	
(SBIR) THE FLAT FLAME BURNER: ENHANCING COMBUSTION RESEARCH		MCKENNA PRODUCTS, INC.	CLIN	N 17/02/89		89-NA-149		
(SBIR) DEVELOPMENT OF CONCENTRATION MODULATED ABSORPTION AS A COMBUSTION DIAGNOSTIC		ANNEX	JAMES	N 17/02/89		TISHKOFF	89-NA-149	
(SBIR) ELECTRIC FIELD ENHANCED FLAME STABILITY AND MIXING IN NONPREMIXED COMBUSTION SYSTEMS		BERRAN	KURT	N 17/02/89		TISHKOFF	89-NA-150	
AEROCHIM RESEARCH LABORATORIES INC		CHARLES		N 21/02/89		89-NA-151		
(SBIR) OPTICAL FREQUENCY DOMAIN SIGNAL PROCESSORS FOR LDV APPLICATIONS IN HIGH SPEED FLOWS		WILLIAM		N 21/02/89		TISHKOFF	89-NA-152	
AEROMETRICS, INC.		BACHALD		N \$45,969				

TITLE	INSTITUTION	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBIR) PHOTOCHEMICAL SYNTHESIS OF METASTABLE EXCITED REACTANTS FOR SUPERSONIC COMBUSTION	M L ENERGIA INC	N 06 21/02/89 \$50,000	TISHKOFF 89-NA-153	
(SBIR) TRIBOELECTRICITY - A NEW ALL-ELECTRONIC METHOD FOR FLOW MEASUREMENT OF JET FUELS AND OTHER INSULATING FLUIDS	AUBURN INTERNATIONAL, INC.	N 06 21/02/89 \$49,980	TISHKOFF 89-NA-154	
(SBIR) ENHANCED BORAN FUELS VIA CHEMICAL VAPOR DEPOSITION	JOHN CRAIN	N 06 21/02/89 \$49,167	TISHKOFF 89-NA-155	
REFRACTORY COMPOSITES	PACUETTE E.L.	N 06 21/02/89 \$4,989,679	TISHKOFF 89-NA-156	
(SBIR) STUDY OF AN INNOVATIVE 3DW RAMACCELERATOR PROPULSION DEVICE	ADVANCED PROJECTS RESEARCH INC	N 06 21/02/89 \$4,989,679	TISHKOFF 89-NA-156	
(SBIR) SIMULTANEOUS MEASUREMENTS OF TEMPERATURE, DENSITY, AND VELOCITY IN GAS FLOW BY MODULATED PHOTOLUMINESCENCE	WAN, LEE AND ASSOCIATES, INC.	N 06 21/02/89 \$50,000	TISHKOFF 89-NA-157	
DROP/GAS INTERACTIONS IN DENSE SPRAYS	JIAN-BANG LIU	R 36 02/03/89 \$345,095	A TISHKOFF 89-NA-195	\$110,371 15/07/89 \$345,095
UNIV OF MICHIGAN FAETT	GERARD			
CATCARS: TWO-DIMENSIONAL COHERENT ANTI-STOKES RAMAN SCATTERING WITH APPLICATION TO THE HYDROGEN ARJET	BEITING AEROSPACE CORPORATION	N 36 18/03/89 \$460,000	A TISHKOFF 89-NA-190	\$70,885 01/07/89 \$460,173
VORTEX SIMULATION OF TURBULENT COMBUSTION	GHONIEM AHMED	N 36 18/03/89 \$434,056	A TISHKOFF 89-NA-193	\$159,304 01/09/89 \$434,056
HIGH RESOLUTION MEASUREMENTS OF STRAINED CUFFLISION LAYER STRUCTURE AND EXTINCTION IN TURBULENT FLOWS	CAMM KERNER	N 24 24/03/89 \$253,509	A TISHKOFF 89-NA-201	\$186,192 01/09/89 \$253,509

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(90 UR) INVESTIGATION ON NON-EQUILIBRIUM PHENOMENA IN FLOWS OF PARTICLES OR DROPLETS IN GASES AND VAPORS	UNIV OF DELAWARE	MICHAELICES	N 24 28/03/89 \$86,122	A	TISHKOFF	28/03/89 89-NA-204	15/06/89	\$133,000
INVESTIGATION OF COMBUSTION IN LARGE VORTICES	CALIFORNIA INSTITUTE OF TECHNOLOGY	MARBLE	R 24 28/03/89 \$27,000	A	TISHKOFF	28/03/89 89-NA-206	15/06/89	\$270,000
(SBIR) DEVELOPMENT AND TESTING OF CRACK HARDENING AND REPAIR FOR CONCRETE STRUCTURES WITH COMPOSITE FIBER CEMENT	SCIENCE AND TECHNOLOGY INSTITUTE INC.	THIRUMALA I.	N 06 06/01/89 \$49,900	WU		89-NA-070		
INVESTIGATION OF THE FRACTURE HEALING MECHANISM IN ASPHALT CEMENTS USING THE THEORY OF NONLINEAR VISCOELASTICITY	TEXAS A AND M RESEARCH FOUNDATION	LITTLE	N 36 09/01/89 \$259,637	WU		89-NA-096		
(SBIR) PLASTIC STRAIN CONTROL OF TESTS IN CLOSED-LOOP SERVO TEST SYSTEMS	RE/SPEC INC	SESENSY	N 06 11/C1/89 \$49,933	WU		89-NA-090		
INSTABILITYS OF DAMAGE AND SURFACE DEGRADATION MECHANISMS IN ERITILE MATERIAL STRUCTURAL SYSTEMS	UNIV OF ARIZONA	FRANTZISKONIS	N 24 01/02/89 \$145,580	A	971-981	15/06/89		
PULSE VELOCITY MEASUREMENTS FOR IMPROVED DETERMINATION OF THE QUALITY OF CONCRETE IN STRUCTURES	DREXEL UNIVERSITY	POPOVICS	N 36 01/02/89 \$384,121	WU	99-NA-112			\$145,590
(SBIR) NEW FAILURE THEORY FOR PREDICTION OF ROCK FAILURE UNDER INTENSE IMPULSIVE LOADS	LTD INC.	FOSTER	N 06 06/02/89 \$64,647	WU	89-NA-117			
(SBIR) PARABOLIC STRESS-STRAIN RELATIONSHIPS FOR FINITE ELEMENT MODELING OF STRAIN SOFTENING ROCKS	LTD INC.	EUGENE	N 06 06/02/89 \$59,363	WU	89-NA-120			

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INSTITUTION			AMOUNT	PROGRAM MANAGER	START DATE
(SSIR) NONLINEAR MODELING OF CONSTITUTIVE BEHAVIOR OF CERAMICS		CHEN	\$150,000	PROPOSAL #	TOT AMT
INTEGRATED ENGINEERING DESIGN INC		EN-SHENG			
DYNAMIC FAILURE OF ROCK					
CALIFORNIA INSTITUTE OF TECHNOLOGY	AHRENS	THOMAS			
CALIFORNIA INSTITUTE OF TECHNOLOGY					
DAMAGE EVOLUTION LAW OF CONCRETE MATERIALS					
PURDUE RESEARCH FOUNDATION	CHEN	WAI-FAH			
UNIV OF MICHIGAN	HSU				
VICRCCRACKING CHARACTERISTICS OF CONCRETE DISCONTINUITY POINT					
UNIV OF MICHIGAN	THOMAS				

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INSTITUTION			AMOUNT	PROPOSAL #				
(SBIR) A HIGH TEMPERATURE HEAT CONDUCTION CALCRIMETER FOR MATERIALS TESTING	IRONAC, INC.	BROWN	N 12 17/02/89 \$50,000	BALL	BURGGRAF	N 12 06/01/89 \$49,999	BURGGRAF	89-NC-191
A MAGNETRON IONIZATION STAGE FOR USE IN SPUTTER-DENEUTRAL MASS SPECTROMETRY WITH PART PER BILLION SENSITIVITY	SANDIA SYSTEMS	MOORE	CAMERON	RICHARD	CARLSON	N 12 10/01/89 \$165,595	BURGGRAF	89-NC-105
ULTRAFAST LASER STUDIES OF VIBRATIONAL ENERGY TRANSFER IN MOLECULES ON SINGLE CRYSTAL SURFACES	NATIONAL BUREAU OF STANDARDS	CAVEAUGH	DANIEL			N 12 18/01/89 \$38,350	BURGGRAF	89-NC-117
1989 GORDON CONFERENCE ON DYNAMICS OF GAS-SURFACE INTERACTIONS	GORDON RESEARCH CONFERENCES INC	AUERBACH	KENNETH			N 12 19/01/89 \$200,000	BURGGRAF	89-NC-129
SURFACE DEPOSITION AND FORMATION CHEMISTRY OF BORON NITRIDE THIN FILMS	LOS ALAMOS SCIENTIFIC LAB (CALIF UNIV)	HARRACINE	DAVID			N 12 27/01/89 \$348,529	BURGGRAF	89-NC-130
FARALLEL NANOPETER SCALE FABRICATION	UNIV OF COLORADO	DOUGLAS				N 12 17/02/89 \$50,000	BURGGRAF	89-NC-145
ELECTRONIC INTERACTIONS OR DIRECTED PHOTON BEAMS WITH SURFACES	VANDERBILT UNIVERSITY	TOLK	NORMAN	HOWARD		N 12 17/02/89 \$50,000	BURGGRAF	89-NC-179
(SBIR) A NEW PROBE FOR IN SITU CHARACTERIZATION OF DIAMOND SURFACE CURING LPCVD	SCHMIDT INSTRUMENTS	SCHMIDT				N 12 17/02/89 \$50,000	BURGGRAF	89-NC-193
(SBIR) THE NGASILVER X-RAYS AND ULTRAVIOLET PHOTOGRAPHIC MATERIAL FOR INDUSTRIAL AND MEDICAL RADIOGRAPHY	AMERICAN STANDARDS TESTING BUREAU, INC.	EVIN	GEORGE			N 12 17/02/89 \$50,000	BURGGRAF	89-NC-184

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(SBIR) MINI GC WITH LOW VOLUME SAM DETECTOR FOR PROCESS AND ENVIRONMENTAL DIAGNOSIS MICROSENSOR SYSTEMS, INC.	WCHTJEN H.	N 12 17/02/89 \$69,130	BURGGRAF BURGGRAF 89-NC-167	
(SBIR) AUTOMATED NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY INTERPRETATION SPECTRAL INTELLIGENCE CORP.	CAVIS KENNETH	N 12 17/02/89 SSC,00C	BURGGRAF BURGGRAF 89-NC-198	
(SBIR) A SENSITIVE TRIGOLOGICAL DISCRIMINATOR FOR POLYMER COMPOSITES FROMATEC, INC.	PRICE HOWARD	N 12 17/02/89 \$46,590	BURGGRAF BURGGRAF 89-NC-190	
(SBIR) CONTROLLED SYNTHESIS OF MICROLAMINATE COMPOSITES BY AN UNIQUE CVD METHOD CELTA G. CORP.	HOLZ ROBERT	N 12 17/02/89 \$45,280	BURGGRAF BURGGRAF 89-NC-193	
MECHANISMS OF DISSOCIATIVE CHEMISORPTION ON SEMICONDUCTOR SURFACES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	STEINFELD JEFFREY	P 12 12/01/89 \$101,410	CAVIS CAVIS 89-NC-120	
MICROSCOPIC MECHANISMS OF GAS/SURFACE INTERACTIONS CHEMICAL DYNAMICS CORPORATION	GARRETT BRUCE	N 12 13/01/89 \$45,986	CAVIS CAVIS 89-NC-123	
COMPUTATIONAL KINETIC DATA FOR IR SIGNATURES CHEMICAL DYNAMICS CORPORATION	SWAMINATHAN P	N 12 13/01/89 \$49,997	CAVIS CAVIS 89-NC-124	
THEORETICAL STUDIES OF NONLINEAR OPTICAL PROPERTIES OF CONJUGATED POLYMERS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SILBEY ROBERT	N 12 23/01/89 \$122,911	DAVIS DAVIS 99-NC-135	
THEORETICAL STUDIES OF SILICON AND RELATED ELEMENTS NORTH DAKOTA STATE UNIVERSITY	GORDON PARK	N 12 23/01/89 \$131,160	DAVIS DAVIS 89-NC-137	

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NONLINEAR OPTICAL PROPERTIES OF MOLECULES	MEMPHIS STATE UNIVERSITY	KURTZ	HENRY	N 12 24/01/89 \$94,698	DAVIS 89-NC-139
SPECTROSCOPY AND DYNAMICS OF MOLECULAR AND IONIC IMPURITIES EMBEDDED IN SILIC HYDROGEN UNIV OF CHICAGO	TEXAS TECH UNIVERSITY	CKA	TAKESHI	N 12 24/01/89 \$235,969	DAVIS 89-NC-140
VARIATIONAL TRANSITION STATE THEORY STUDIES OF GAS PHASE ION-POLYCLE AND NEUTRAL-NEUTRAL REACTIONS	CHESAPEAKE	WALTER		N 12 25/01/89 \$92,555	CAVIS 89-NC-141
ROTATIONAL DESIGN, CONSTRUCTION, AND PROCESSING OF HIGH-PERFORMANCE NONLINEAR OPTICAL MATERIALS	NORTHWESTERN UNIVERSITY	MARK	TCBIM	N 12 27/01/89 \$224,184	DAVIS 89-NC-142
MOLECULAR CALCULATIONS FOR NONLINEAR OPTICAL RESPONSE	NORTHWESTERN UNIVERSITY	RATNER	MARK	N 12 27/01/89 \$69,502	DAVIS 89-NC-150
CONFORMATION AND PACKING OF RIGID-ROC POLYMERS	UNIV OF VIRGINIA	FARMER	6.	N 12 31/01/89 \$110,870	DAVIS 89-NC-151
FUNDAMENTAL STUDIES ON FREE RADICAL SURFACE INTERACTIONS	SRI INTERNATIONAL	GOLDEN	DAVIS	N 12 31/01/89 \$125,982	DAVIS 89-NC-152
HIGH-PERFORMANCE POLYMERIC MATERIALS: THEORY, COMPUTER SIMULATION AND EXPERIMENT	CHEMICAL UNIVERSITY	BOSTON	WHITE	N 12 31/01/89 \$135,007	DAVIS 89-NC-153
BASIC STUDIES CONCERNING TEMPORAL STABILITY OF SECOND HARMONIC GENERATION INTENSITY IN GLASSY POLYMERS AND THE DEVELOPMENT OF NORTHWESTERN UNIVERSITY	JOHN			N 12 31/01/89 \$186,353	DAVIS 89-NC-154

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ULTRAFAST CHEMICAL DYNAMICS OF REACTIONS IN BEAMS	A	R 12 31/01/89 \$278,945	DAVIS 89-NC-156	
CALIFORNIA INSTITUTE OF TECHNOLOGY	ZEMAIL			
RESONANCE ENHANCED MULTIPHOTON IONIZATION PROCESSES IN MOLECULES AND MOLECULAR FRAGMENTS	MCKOY	R 12 01/02/89 \$80,000	DAVIS 89-NC-160	
CALIFORNIA INSTITUTE OF TECHNOLOGY	VINCENT			
STUDIES OF ELECTRO-OPTICAL PROPERTIES OF POLYMERIC MATERIALS	WILLIAM	N 12 01/02/89 \$83,031	DAVIS 89-NC-161	
UNIV OF MISSOURI				
MOLECULAR NONLINEAR OPTICAL SUSCEPTIBILITIES IN CONDENSED PHASES	MUKAMEL	N 12 01/02/89 \$139,000	DAVIS 89-NC-163	
UNIV OF ROCHESTER	SHAUL			
ATOMIC PROBES OF SURFACE STRUCTURE AND DYNAMICS	HELLER	N 12 02/02/89 \$100,000	DAVIS 89-NC-164	
UNIV OF WASHINGTON	E			
THE RELAXATION OF VIBRATIONAL AND ELECTRONIC EXCITATIONS IN SOLVATED DYE MOLECULES	JAN	N 12 02/02/89 \$117,059	DAVIS 89-NC-165	
UNIV OF ROCHESTER	WALLSLEY			
MICROSCOPIC MODELING OF TRIBOLOGICAL AND INTERFACIAL PHENOMENA	LIU	N 12 02/02/89 \$123,161	DAVIS 89-NC-166	
GEORGIA TECH RESEARCH CORPORATION	LANDMAN			
AB INITIO MOLECULAR ORBITAL CALCULATIONS FOR MAGNESIUM-CONTAINING SYSTEMS	LII	N 12 02/03/89 \$37,656	DAVIS 89-NC-201	
ROYAL MOLLOMAY & BEDFORD NEW COLLEGE	GARDNER			
CRAY 2 CALCULATIONS ON THE STRUCTURES PRESENT IN SILICA GELS	PETER			
UNIV OF FLORIDA	JON	N 6 22/03/89 \$2,300	DAVIS 89-NC-213	\$2,000 01/04/89 \$2,000

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE
INSTITUTION			AMOUNT	PROPOSAL #		START DATE
						TCT AMT
DESIGN AND EVALUATION OF HIGHLY-ELECTROPHILIC CATALYSTS FOR CLEFIN POLYMERIZATION AND OLIGOMERIZATION	KEST VIRGINIA UNIVERSITY	JEFFREY	N 03/01/89 \$122,660	12	MATUSZKO 89-NC-035	
SYNTHESIS AND CHEMISTRY OF NEW CYCLIC FLUOROCARBONS	CARTHOUSE COLLEGE	DAVID	N 17/01/89 \$104,044	12	MATUSZKO 89-NC-125	
1989 GORDON RESEARCH CONFERENCE ON ORGANOMETALLIC CHEMISTRY	GORDON RESEARCH CONFERENCES INC	THOMAS	N 18/01/89 \$7,050	12	MATUSZKO 89-NC-128	
CATALYTIC ACTIVATION OF SMALL MOLECULES BY METAL CENTERS	CLARKSON UNIVERSITY	Lauri	N 19/01/89 \$127,332	12	MATUSZKO 89-NC-131	C
1989 GORDON RESEARCH CONFERENCE ON CORROSION	MAX PLANCK INSTITUTE FUER AERONOMIE	GRABKE	N 19/01/89 \$3,000	12	MATUSZKO 89-NC-133	D
ULTRAFAST SPECTROSCOPY OF ELECTRONIC STATES AND NONLINEAR OPTICS IN POLYSILANES	UNIV OF UTAH	ZEEV	N 01/02/89 \$111,486	12	MATUSZKO 89-NC-159	
STRAINED RING COMPOUNDS (4.4.4.5) AND (4.4.4.4) FENESTRALES	ROCKEFELLER UNIVERSITY	AGOSTA	N 03/02/89 \$146,428	12	MATUSZKO 89-NC-168	
KINETICS AND MECHANISMS OF REACTIVE INTERMEDIATES IN SILICON CHEMISTRY	UNIV OF NORTH TEXAS	CONLIN	N 09/02/89 \$114,087	12	MATUSZKO 89-NC-176	
STEREORECONTROLLED CATALYSIS OF REACTIONS OF NITROALKANES	TRINITY COLLEGE	DAVIS	N 15/03/89 \$21,312	12	MATUSZKO 89-NC-210	A

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TITLE (CONT.)				
INSTITUTION				
CYANICS AND STABILIZATION OF MATERIALS POSSESSING HIGH ENERGY CONTENT	NICHOLAS	R 12 24/03/89 \$100,000	MATUSZKO 89-NC-215	
COLUMBIA UNIVERSITY	TURRC			
BIOTECHNOLOGY SYMPOSIUM		N 12 28/03/85 \$1,500	A MATUSZKO 89-NC-217	\$7,500 05/07/89 \$7,500
AMERICAN SOCIETY FOR COMPOSITES	SOMI			
THE PREPARATION AND STUDY OF NEW NONLINEAR OPTICAL ORGANIC MATERIALS	SONI			
UNIV OF SOUTHERN CALIFORNIA	SINGER	N 12 29/03/85 \$76,476	MATUSZKO 89-NC-219	
(SBIR) LABORATORY EXPERIMENTS TO INVESTIGATE THE ROLE OF GRAVITY WAVE/SHEAR INTERACTIONS IN GLOBAL ATMOSPHERIC CIRCULATION NORTHWEST RESEARCH ASSOCIATES, INC.	LAWRENCE	N 12 05/01/89 \$56,148	STOBIE 89-NC-100	
CONALD				
(SBIR) THE DEVELOPMENT OF A SLANTWISE CONVECTIVE PARAMETERIZATION SCHEME FOR OPERATIONAL NUMERICAL WEATHER PREDICTION MODELS MESOSCALE ENVIRON SIMUL & OPER INC.	V. MOHAN	N 12 05/01/89 \$49,964	STOBIE 89-NC-101	
KARYAMPUCI				
ASSESSMENT OF THE VIABILITY OF 3-D MECHANISTIC MODELS TO FORECAST SHORT-TERM VARIABILITIES IN THE LARGE SCALE PATTERNS OF WINDS AND ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	HANS	N 12 09/01/89 \$49,536	STOBIE 89-NC-105	
SCHNEIDER				
ABSOLUTE, EXTREME-ULTRAVIOLET SOLAR SPECTRAL IRRADIANCE MONITOR (AESSIM)	PARKINSON	N 12 27/01/89 \$82,726	STOBIE 89-NC-147	
HARVARD UNIVERSITY				
(SBIR) ATMOSPHERIC SCIENCE MODELING TECHNOLOGY		N 12 17/02/89 \$44,171	STOBIE 89-NC-176	
GULF WEATHER CORP.	SCHATZLE	F. J.		
(SBIR) IMPROVED EXTENDED-RANGE ATMOSPHERIC PRECIPITATION FORECAST MODEL	JOHNSON	N 12 17/02/89 \$50,238	STOBIE 89-NC-190	
NETRCLOGIC, INC	JAMES			

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(SBIR) A MESOSCALE FORECAST MODEL OF THE FUTURE ASTER, INC	CERICKSON RUSSELL STEPHEN	N 12 17/02/89 \$45,900	STOBIE 89-NC-192	
(SBIR) INTERFEROMETRIC CALORIMETER FOR ULTRA-SENSITIVE ABSORPTION MEASUREMENTS AT PULSED LASER WAVELENGTHS SCIENCE RESEARCH LABORATORY	FULGHUM	N 12 21/02/89 \$45,969	STOBIE 89-NC-195	
(SBIR) A PRACTICAL COMPUTER MODEL FOR SIMULATING LATENT HEATING AND COOLING IN THE ATMOSPHERE SCIENCE & ENGINEERING ASSOCIATES	MATTINGLY PAUL	N 12 23/02/89 \$48,062	STOBIE 89-NC-197	
(SBIR) ON THE USE OF MULTIPROCESSING COMPUTERS FOR GLOBAL NUMERICAL WEATHER PREDICTION ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	HOFFMAN R	N 12 03/03/89 \$239,100	STOBIE 89-NC-203	
ANALYSIS OF EXTREME AND FAR UV AURORA OBSERVED FROM STP78-1 UNIV OF CALIFORNIA	CHAKRABORTI SUPRIYA	N 12 07/03/89 \$51,052	STOBIE 89-NC-204	
TURBULENT THERMAL CONVECTION IN ROTATING AND STRATIFIED FLUIDS ARIZONA STATE UNIVERSITY	FERNANDO H.J.S.	N 12 08/03/89 \$26,509	STOBIE 89-NC-205	
NUMERICAL STUDY OF MESOSCALE DISTURBANCES FORDUE UNIVERSITY	SUN WEN-YIH	N 12 13/03/89 \$86,805	STOBIE 89-NC-206	
HIGH FREQUENCY RADAR STUDIES OF THE VERY HIGH LATITUDE IONOSPHERE JOHNS HOPKINS UNIVERSITY	GREENWALC RAYMOND	N 05 20/03/89 \$50,000	STOBIE 89-NC-211	\$50,000 01/05/89 \$50,000
STUDIES OF GRAVITY WAVE/MEAN FLOW INTERACTIONS NORTHWEST RESEARCH ASSOCIATES, INC.	DELISI CONALD	N 12 28/03/89 \$81,982	STOBIE 89-NC-218	

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INSTITUTION			AMOUNT	PROPOSAL #		
THERMOCHEMISTRY OF DOPING ANC ANION EXCHANGE IN ELECTRICALLY CONDUCTIVE POLYMERS LNIV CF WISCONSIN	PIETAC	WILLIAM	N 12 03/01/89 \$104,795	ULRICH 89-NC-096		
(SBIR) NEW LADDER POLYMERS MAXDEM INC	MARROCO	MATTHEW	N 12 03/01/89 \$69,596	ULRICH 89-NC-097		
(SBIR) AN ENTIRELY NEW SOL-GEL PROCESS FOR THE NEXT GENERATION OF HIGH PERFORMANCE CERAMICS FOSTER-MILLER INC	HAGHIGHAT	ROSS	N 12 05/01/89 \$64,264	ULRICH 89-NC-098		
(SBIR) HIGH COMPRESSIVE STRENGTH PBO MICACOMPOSITE FIBERS FOSTER-MILLER INC	LUSIGNEA	RICHARD	N 12 05/01/89 \$52,878	ULRICH 89-NC-099		
PREPARATION OF A NEW CLASS OF PROCESSIBLE, INTRINSICALLY RIGID POLYMERS MAXDEM INC	TRIMMER	MARK	N 12 06/01/89 \$67,748	A ULRICH 89-NC-102		\$50,000 01/07/89 \$50,000
PREPARATION OF NOVEL CERAMIC COMPOSITES BY LCA TEMPERATURE CC-FYROLYSIS OF MIXTURES OF PRE-CERAMIC PRECURSOR POLYMERS GELTRAN INC	SIMO	CONSTANCE	N 12 06/01/89 \$50,000	ULRICH 89-NC-103		
MICROEMULSION POLYMERIZATION AS A ROUTE TO STRUCTURED POLYMERS BREWER SCIENCE INC	FLAIP	TONY	N 12 06/01/89 \$50,000	ULRICH 89-NC-104		
SYNTHESIS OF NANOSIZED ALUMINUM RITRICES TECHNICAL RESEARCH ASSOCIATES INC.	GENSSE	CHANTAL	N 12 09/01/89 \$5,500	W ULRICH 89-NC-107		
DEVELOPMENT OF RADIATION HARC, THERMOPLASTIC, TRANSPARENT, POLYORGANOSILICXANES NANOPTICS INC.	J		N 12 09/01/89 \$50,000	ULRICH 89-NC-110		

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE PROPOSAL #	START DATE TOY AAT
CONTROLLED CHEMICAL MODIFICATION OF ARAMIC FIBER SURFACES TO ENHANCE FLAME RETARDATION	BELTRAN INC	SIMO	CONSTANCE	N 09/01/89 \$50,000	ULRICH 89-NC-111		
ULTRASTRUCTURED CARBON FIBERS FOR ULTRAHIGH TEMPERATURE COMPOSITES	BRITC	K		N 09/01/89 \$49,921	ULRICH 89-NC-112		
CVD/HYBRID FIBERS FOR STRUCTURAL, THERMAL AND ELECTRICAL APPLICATIONS	APPLIED SCIENCE, INC.	LAKE	MAX	N 09/01/89 \$60,526	ULRICH 89-NC-113		
HIGH TEMPERATURE SUPERCONDUCTIVITY WIRE AND TAPE	APPLIED SCIENCE, INC.	LAKE	MAX	N 09/01/89 \$61,492	ULRICH 89-NC-114		
LOW PRESSURE CHEMICAL VAPOR DEPOSITION OF THIN, HIGH PURITY AL203 FILMS	BELTRAN INC	SIMO	CONSTANCE	N 09/01/89 \$50,000	ULRICH 89-NC-115		
THE SYNTHESIS OF INCLUSION NONLINEAR OPTIC MATERIALS: ORGANIC, ORGANOMETALLIC AND POLYMER CHEMISTRY IN INORGANIC HOSTS	UNIV OF CALIFORNIA STUCKY	GALEN		N 11/01/89 \$235,139	ULRICH 89-NC-118		
MOLECULAR METALS AS IMMUNOCONDUCTIMETRIC MICROSENSORS FOR PROACTIVE AGENTS AND CONTROLLED SUBSTANCES	UNIV OF WISCONSIN PIETRO	PIETRO	WILLIAM	N 13/01/89 \$71,900	ULRICH 89-NC-121		
INVESTIGATION OF DEVICE ACTIVITY IN PHTHALOCYANINATO-SILOXANE BILAYERS AND BLOCK COPOLYMERS	UNIV OF WISCONSIN	PIETRC	WILLIAM	N 13/01/89 \$72,280	ULRICH 89-NC-122		
ORDERED RIGID ROD AND LACER POLYMERS FOR NONLINEAR OPTICS AND ELECTRONICS	UNIV OF ROCHESTER JENEKE	JENEKE	SAMSON	N 24/01/89 \$150,265	ULRICH 89-NC-138		

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FOLLING OF THIN POLYMER FILMS IN ELECTRO-CPTIC APPLICATIONS	FULLER GERALD	N 12 27/01/89 \$65,500	ULRICH	89-NC-143	
SECOND-ORDER OPTICAL EFFECTS IN COMPOSITE MATERIALS	CALVERT PAUL	N 12 27/01/89 \$111,340	ULRICH	89-NC-144	
SYNTHESIS OF NEW ORGANOTRANSITION METAL MATERIALS TOWARD USEFUL APPLICATIONS IN NON-LINEAR OPTICAL DEVICES	M. GREEN MALCOLM	N 12 27/01/89 \$119,198	ULRICH	89-NC-146	
EFFECTS OF PRESSURE PULSING AND THERMAL GRADIENT ON THE CHEMICAL VAPOR INFILTRATION OF FIBROUS PREFORMS	SUNDARESAN SANKARAN	N 12 31/01/89 \$114,105	ULRICH	89-NC-155	
EXPLORATORY DESIGN AND SYNTHESIS OF NEW NONLINEAR OPTICAL MATERIALS	MCMARON ROBERT	N 12 01/02/89 \$220,653	ULRICH	89-NC-157	
POLYMER-POLYMER INTERACTIONS	SANCHEZ ISAAC	N 12 01/02/89 \$194,404	ULRICH	89-NC-158	
SUPPORT FOR IV INTERNATIONAL CONFERENCE ON UNCONVENTIONAL PHOTOCOAT IVE SOLIDS	PRASAD FARAS	N 12 03/02/89 \$6,000	ULRICH	89-NC-157	
STRUCTURAL STUDIES OF SOL-GEL GLASSES	PERRY CAROLE	N 12 06/02/89 \$30,000	ULRICH	89-NC-170	
STRUCTURAL STUDIES OF SOL-GEL GLASSES	PERRY CAROLE	N 12 07/02/89 \$30,000	ULRICH	15/07/89 \$99,000	

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				PROPOSAL #	INITIATE START DATE TOT AMT
DESIGN, SYNTHESIS AND CHARACTERIZATION OF ELECTROACTIVE AND ELECTROOPTIC POLYMERS DERIVED FROM MULTIFUNCTIONAL MONOMERS UNIV OF TEXAS	JOHN FERRARI	N 12 07/02/89 \$183,200	ULRICH 89-NC-172		
MATERIALS CHEMISTRY SYMPOSIUM UNIV OF WASHINGTON	LAINE RICHARD	N 12 07/02/89 \$5,000	ULRICH 89-NC-173		
ULTRASTRUCTURE PROCESSING & COMPUTER MODELING OF POLYMERS JOHNS HOPKINS UNIVERSITY	ESY RONALD	R 12 08/02/99 \$80,122	ULRICH 89-NC-174		
SBIR MICROWAVE DISCHARGE SYNTHESIS OF SEMICONDUCTING THIN FILM POLYMERS MISSION RESEARCH	HUTCHESON GEORGE	N 12 09/02/89 \$49,369	ULRICH 89-NC-175		
(SBIR) MULTIFUNCTIONAL NONMETALLIC MATERIALS PROCESSING AND CHARACTERIZATION: A SUPERCONDUCTING WIRE TRACER TECHNOLOGIES, INC	HALSH FRASER	N 12 17/02/89 \$50,300	ULRICH 89-NC-191		
(SBIR) NONLINEAR CHANNEL WAVEGUIDE STRUCTURES FROM ADVANCED SOL-GEL AND E-BEAM PHYSICAL OPTICS CORPORATION	SAVANT GAJENDRA	N 12 21/02/89 \$49,399	ULRICH 89-NC-196		
Liquid Crystalline Polymers with NLO Properties CORNELL UNIVERSITY	CBER CHRISTOFER	N 12 28/02/89 \$118,430	ULRICH 89-NC-199		
IV INTERNATIONAL CONFERENCE ON UNCONVENTIONAL PHOTOCACTIVE SOLIDS STATE UNIVERSITY OF NEW YORK	PRASAD PARAS	N 12 03/03/89 \$6,000	ULRICH 89-NC-202		
CHEMICAL PROCESSING OF OXYCARBIDE GLASSES AND GLASS-CERAMICS FOR ADVANCED COMPOSITES, COATINGS, AND FIBERS PENNSYLVANIA STATE UNIVERSITY	PANTANO CARLO	N 12 09/03/89 \$104,581	ULRICH 89-NC-206		

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TITLE (CONT.)					
INSTITUTION					
THE PROCESSING SCIENCE OF ADVANCED CERAMICS					
MATERIALS RESEARCH SOCIETY	AKSAY	ILHAN	N 12 13/03/89 \$15,800	A ULRICH 89-NC-207	\$15,200 26/04/89 \$15,100
URI CENTER FOR ADVANCED ELECTRICAL AND STRUCTURAL POLYMERS	KARASZ	FRANK	N 12 22/03/89 \$2,000,000	ULRICH 89-NC-212	
THEORETICAL AND EXPERIMENTAL ANALYSIS OF PREPREGS	ADVANI	SURESH	N 12 24/03/89 \$111,026	ULRICH 89-NC-214	
COLLOID AND INTERFACE CHEMISTRY ASPECTS OF CERAMICS	MATIJEVIC	ECON	N 12 24/03/89 \$190,925	ULRICH 89-NC-216	
INTELLIGENT PROCESSING OF MATERIALS	KUSHNER	ERIAN	N 12 30/03/89 \$412,899	A ULRICH 89-NC-220	\$412,899 01/05/89 \$412,899
CRYSTALLIZATION OF NANOCOMPOSITE GLASSES MADE BY THE SSG PROCESS	ROY	RUSTUM	R 12 30/03/89 \$152,633	ULRICH 89-NC-221	
A NOVEL MASS SPECTROMETER FOR DIRECT MIXTURE ANALYSIS	BOMSE	CAVIO	N 12 09/01/89 \$50,032	WILKES 89-NC-116	
ACCELERATOR-BASED SIMS HIGH ENERGY ANALYZER	CHARLES EVANS & ASSOC.	SIGNER	N 12 12/01/89 \$49,347	WILKES 89-NC-119	
GORDON RESEARCH CONFERENCE ON MOLTEN SALTS AND LIQUID METALS	BUTTAILL, JR				
GORDON RESEARCH CONFERENCES INC	SABOLAGI	MARIE-LCUISE	N 12 18/01/89 \$5,000	WILKES 89-NC-127	

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INSTITUTION			RECEIVED	PROPOSAL #		START DATE
			AMOUNT			TOT AMT
STUDIES IN LEWIS ACID AND SUPERACID IONIC LIQUIDS		ROBERT COSTER YOUNG	N 12 19/01/89 \$143,681	WILKES	89-NC-132	
STATE UNIVERSITY OF NEW YORK						
ELECTRODEPOSITION AND CHARACTERIZATION OF TRANSPARENT CONDUCTING METAL OXIDE FILMS FOR OPTOELECTRONICS		JAY SWITZER	N 12 21/01/89 \$161,716	WILKES	89-NC-148	
UNIV OF PITTSBURGH						
(SBIR) A NEW, HIGH AMPLIFICATION, HEAVY-CUTY TRANSISTOR-TYPE DEVICE		DWIGHT CRAIG	N 12 17/02/89 \$50,000	WILKES	89-NC-177	
CRAIG DEVELOPMENT CORP.						
(SBIR) MICRO GAS CHROMATOGRAPH		M. L. COPIKANTH	N 12 17/02/89 \$50,000	WILKES	89-NC-195	
CHEMTECH SYSTEMS, INC.						
(SBIR) SQUID NMR		RONALD SAGER	N 12 17/02/89 \$56,286	WILKES	89-NC-186	
QUANTUM MAGNETICS, INC.						
(SBIR) DEVELOPMENT OF THE ADVANCED HYDROGEN ANALYZER		JAMES CONDON	N 12 17/02/89 \$50,000	WILKES	89-NC-189	
CRPAC, INC.						
(SBIR) DEVELOPMENT OF A MODERATELY PRICED LIGHT ELEMENT X-RAY FLUORESCENCE ANALYZER		NICHOLAS BARBI	N 12 17/02/89 \$49,734	WILKES	89-NC-192	
PEAKS INSTRUMENTS, INC.						
FUNDAMENTAL STUDIES OF POLYPHOSPHAZENE AND POLYSILOXANE POLYELECTROLYTES FOR ELECTROCHEMICAL DEVICES		SHRIEVER CUWARD	N 12 14/03/89 \$120,777	WILKES	89-NC-209	
NORTHWESTERN UNIVERSITY						
INVESTIGATION OF A WEAKNESS IN GEAR'S BACKWARDS DIFFERENTIATION METHOD FOR THE NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS		SUSAN BELANGER	N 12 09/01/89 \$50,000	WODARCZYK	89-NC-106	
MISSION RESEARCH CORP						

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				RECEIVED	PROPOSAL #	PROPOSAL #	START DATE
				AMOUNT			TOT AMT
(SBIR) NEW EFFICIENT SHORT WAVELENGTH HIGH POWER SPACE BASED LASER		SPACE POWER, INC.	JOHN LAWLESS	N 28/02/89 \$534,695	A 28/02/89 WCDARCZYK 89-NC-200	\$112,500 15/06/89 \$534,700	

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE
INSTITUTION			AMOUNT	PROPOSAL #		START DATE
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NEURAL NETWORK FOR REAL-TIME MISSION OPTIMIZATION			N 06 06/01/89 \$55,949	GILES		
ELECTRO-OPTEK CORPORATION	WANG C					89-NE-055
ANALOG SPECIAL-PURPOSE NEUROCOMPUTER ARCHITECTURES USING CCD/CMOS/BIMCS BUILDING BLOCKS. Q-DOT RESEARCH PROPOSAL 1156	REED DAVID		N 06 06/01/89 \$49,979	GILES		
C-DOT INC						89-NE-056
VLSI DESIGN FOR THE PARAMETRIC AVALANCHE	DAWES ROBERT		N 06 06/01/89 \$50,708	GILES		
MARTINGALE RESEARCH CORPORATION	DODD DARRYL		N 06 06/01/89 \$49,993	GILES		89-NE-057
NEW HARDWARE FOR ELECTRONIC AND HYBRID OPTOELECTRONIC NEURAL NETWORKS	COON HENDRICUS		N 06 06/01/89 \$49,993	GILES		89-NE-058
MICROTRONICS ASSOCIATES, INC.						
CAPACITIVE ANALOG SYNAPSES IN MNOS	LOOS		N 06 06/01/89 \$53,374	GILES		89-NE-059
LAGUNA RESEARCH LAB						
1989 GORDON RESEARCH CONFERENCE ON MICROGRAPHY AND OPTICAL INFORMATION PROCESSING	ALEXANDER CRUCKSHANK		N 04 09/01/89 \$5,000	GILES		
UNIV OF RHODE ISLAND						
LEARNING IN NEURAL NETWORKS	MOHAMED OSMAN		N 06 10/01/89 \$59,750	GILES		
SCIENTIFIC RESEARCH ASSOCIATES, INC.	J					
HIGH RESOLUTION (50,000 TIME BANDWIDTH) OUTER-PRODUCT MATRIX GENERATING DEVICE FOR NEURAL NETWORKS	SIGS		N 06 10/01/89 \$50,000	GILES		89-NE-063
ERIMROSE CORP. OF AMERICA						
CH-CHIP LEARNING: TRAINING NEURAL NETWORKS IN UNCERTAIN ENVIRONMENTS	KJSUT		N 06 10/01/89 \$78,969	GILES		
INTEGRATED SYSTEMS, INC.	ROBERT					89-NE-067

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	INITIATE START DATE
INSTITUTION			AMOUNT	PROGRAM MANAGER	TCT AMT
FAST DIRECT ENCODING POSITION-SENSITIVE DETECTOR		BRUCE	N 06 12/01/89 \$45,943	GILES	
CHARLES EVANS & ASSOC.	NEWCOMBE	JANOS	N 36 24/01/89 \$382,331	GILES	89-NE-092
DYNAMIC PROPERTIES OF RECONFIGURABLE SIGNAL PROCESSING AND CONTROL SYSTEMS	SZTIFANOVITS	RICHARD	N 24 01/02/89 \$240,000	GILES	89-NE-097
NEURAL NETS FOR SPEECH RECOGNITION	LIPPMANN	S	N 06 14/02/89 \$44,701	GILES	89-NE-101
APPLICATION OF EXPERT SYSTEM TECHNOLOGY TO THE VALIDATION OF MEASURED RCS DATA AT RATTSCAT	ADAIR	CASIMIR	N 06 14/02/89 \$42,500	GILES	89-NE-108
FLAM & RUSSELL INC	KLIMASAUSKAS				
INVESTIGATION OF PARALLEL ARCHITECTURES FOR EFFICIENT IMPLEMENTATION OF A GENERAL PURPOSE NEURAL NET SIMULATOR		ROBERT	N 06 15/02/89 \$45,364	GILES	89-NE-109
NEURALWARE	CASIMIR				
APPLICATION OF A-SI: H TO HOPFIELD-TYPE NEURAL NETWORK PARTICLE PHYSICS DIV. OF PLASMA PHYSIC	BLOSSER	LARRY	N 06 15/02/89 \$46,904	GILES	89-NE-110
		LEVY			
NEUROCOMPUTER ARCHITECTURES USING ASSOCIATIVE PATTERN MEMORY, APR					
PATTERN PROCESSING TECHNOLOGIES, INC.	HERTH				
ALL-PURPOSE MCTV STEREOSCOPIC HEADWORN AUDIO-VISUAL GLASSES USING COLOR LCD'S	LEVY	HENRY	N 06 15/02/89 \$50,000	GILES	89-NE-111
INVENTEK COMPANY					
BENCHMARK TESTS FOR OPTICAL COMPUTING					
ADVANCED OPTICAL SYSTEMS	HARTMAN	R	N 06 15/02/89 \$49,300	GILES	89-NE-112

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT AMT
INSTITUTION			AMOUNT	PROPOSAL #			
DEVELOPMENT OF NEW SCIENTIFIC RESEARCH INSTRUMENTATION			N 06 15/02/89 \$45,924	GILES			
HARMONIC LIGHTWAVES INC.	BERGER	JOSEF					
DIGITALLY BASED WORKSTATION FOR PERFORMING HIGHLY ACCURATE MEASUREMENTS ON LARGE ANALOG FILM IMAGERY	KARSPECK	MILAN	N 06 15/02/89 \$49,610	GILES			
GALAXY MICROSYSTEMS, INC.	FOSDICK	ROBERT	N 06 15/02/89 \$49,713	GILES			
A NEW ARCHITECTURE FOR NEURAL NETWORKS			N 06 15/02/89 \$49,779	GILES			
HORIZONS TECHNOLOGY INC.	GRAY	FREDERIC					
A COMPACT DYNAMIC OPTICAL INTERCONNECT MCCULE FOR NEURAL NETWORK MODELS	EAUR	TOM	N 06 15/02/89 \$49,358	GILES			
MEADOWARK OPTICS, INC.							
SINGLE-CHIP NEURONCOMPUTERS FOR SPEECH RECOGNITION			N 06 15/02/89 \$45,867	GILES			
TANNER RESEARCH, INC.	TANNER	JOHN					
A COMPACT, LOW COST CAMERA SYSTEM TO RECOGNIZE HUMAN FACES			N 06 15/02/99 \$49,142	GILES			
THE TRYMER COMPANY	SCHREDEF	JON					
LIGHT WEIGHT, HIGH RESOLUTION, FLAT PROFILE ELECTRONIC IMAGE DISPLAY SYSTEM	HANLIN	H.	N 06 15/02/89 \$45,937	GILES			
SELYS CORPORATION							
NEUROCOMPUTING WITH AN ASYNCHRONOUS RECURRENT NETWORK			N 06 15/02/89 \$49,575	GILES			
ALFA ENGINEERING, INC.	FEERMANN	PHILIP					

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS	STATUS	INITIATE
	INSTITUTION		RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	START DATE TOT AMT
DEFINITION OF A GIGA-OPS. INTELLIGENT MEMORY. NEURAL NETWORK	SIMULATION BOARD OXFORD COMPUTER	MORTON STEVEN	N 06 15/02/89 \$59,700	GILES	89-NE-123
NEUROCOMPUTERS, NEW ARCHITECTURE AND MODELS OF COMPUTATION	ROSEBERRY, INC.	JERRY	N 06 15/02/89 \$686,400	GILES	89-NE-124
NEURAL NETWORKS FOR TREND RECOGNITION IN EXPERT SYSTEMS	APPLIED INFORMATION SYSTEMS, INC.	BONNIE	N 06 15/02/89 \$45,155	GILES	89-NE-125
NEUROCOMPUTERS, NEW ARCHITECTURES AND MODELS OF COMPUTATION	COMPUSEARCH CORPORATION	KEVIN AMBROSCE	N 06 15/02/89 \$49,324	GILES	89-NE-126
TIME DIVISION COMMUNICATION IN NEURAL NETWORKS	LJ SOFTWARE	LEE BEGEJA	N 06 16/02/89 \$43,680	GILES	89-NE-127
DESIGNING A NCVEL NEUROCCMPUTER - I. SIMULATION OF SYNAPTIC MECHANISMS IN A BRAIN	CDIN CORPORATION	HUANG YEE-WEI	N 06 16/02/89 \$50,000	GILES	89-NE-128
FAULT TOLERANT DATABASE AND SOFTWARE BUILT-IN-TEST	COMPRESSION TELECOMMUNICATIONS CORP.	VENKATARAMAN C.	N 06 16/02/89 \$47,661	GILES	89-NE-129
ASSOCIATIVE NEUROPROCESSORS	AMERICAN STANDARDS TESTING BUREAU, INC.	VAL EYHOVSKY	N 06 16/02/89 \$48,580	GILES	89-NE-130
GENETIC ALGORITHMS FOR NEURAL NETWORK AUTONOMOUS LEARNING	AUSTIN & FAMILY	AUSTIN ALAN	N 06 16/02/89 \$45,810	GILES	89-NE-131

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GUARANTEED LEARNING INADAPTIVE KNOWLEDGE PROCESSORS			N 06	GILES		
DECISION TECHNOLOGY	SELINSKY	JOHN	17/02/89 \$49,816			
VOLUMEETRIC ARCHITECTURES FOR ARTIFICIAL NEURAL NETWORKS			N 06	GILES		
MULTIDIMENSIONAL SYSTEMS ASSOCIATES	PARKS, II	ROBERT	17/02/89 \$49,337			
AN ALGORITHM TO CONSTRUCT FEEDFORWARD NEURAL NETWORKS FROM TRAINING DATA			N 06	GILES		
JASON ASSOCIATES CORPORATION	WONG	SEUNG	17/02/89 \$49,886			
PULSE SUPERPOSED NEURAL NETWORKS FOR PATTERN ANALYSIS RESEARCH			N 06	GILES		
JUDITH DAYHOFF & ASSOCIATES, INC.	CAYHUFF	JUDITH	17/02/89 \$49,782			
ASSOCIATED NEUROPROCESSORS			N 06	GILES		
AMERICAN STANDARDS TESTING BUREAU, INC.	BYKHEVSKY	Y.	17/02/89 \$50,000			
NEURCOMPUTERS, NEW ARCHITECTURES, AND MODELS OF COMPUTATION			N 06	GILES		
KG ASSOCIATES	GANESAN	KALYAN	17/02/89 \$108,355			
AUTOMATED HRC & MRI TEST INSTRUMENT FOR VISIBLE/NEAR IR IMAGE SENSOR PERFORMANCE EVALUATION			N 06	GILES		
PROTO TYPE DEVICES	THOMAS	FRED	17/02/89 \$50,000			
NEURCOMPUTERS, NEW ARCHITECTURES AND MODELS OF COMPUTATION			N 06	GILES		
INTELLCAP INC.	SOMANI	A.	17/02/89 \$50,000			
COMPACT 4C OPTICAL NEURAL NETWORK ARCHITECTURE			N 06	GILES		
SPARTA, INC	HENSHAW	PHILIP	17/02/89 \$59,977			

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ELECTRON-BEAM ADDRESSED FERROELECTRIC LIQUID CRYSTAL SPATIAL LIGHT MODULATOR		CPTRCN SYSTEMS, INC	FARBER IRA	N 06 17/02/89 \$59,955	GILES			89-NE-142
SELF-LEARNING N4 Holographic Neuro-optic Processor		PHYSICAL OPTICS CORPORATION	JANNSON	N 06 17/02/89 \$49,976	GILES			89-NE-143
A NEW ARCHITECTURE FOR A HIGH PERFORMANCE NEURAL NET&CRK SIMULATOR		PENGUIN SOFTWARE, INC	WEIGHT	N 06 17/02/89 \$54,381	GILES			89-NE-144
A GENERIC STRUCTURAL UNIT FOR NEUROCOMPUTERS ARCHITECTURE		TSI ENTERPRISES, INC.	JAMES IDI	N 06 17/02/89 \$51,000	GILES			89-NE-145
APPLICATION OF QUILTED LOGIC TECHNOLOGY TO NEUROCOMPUTERS, NEW ARCHITECTURE AND MODELS OF COMPUTATION		QUILTED LOGIC TECHNOLOGY COMPANY	COHN	N 06 17/02/89 \$49,808	GILES			89-NE-146
A NEURAL ACCELERATOR		AIREX COMPUTER CORPORATION	BEAL	N 06 17/02/89 \$49,969	GILES			89-NE-147
2D EMBEDDED MODULAR NEURAL RING ARCHITECTURES		CAELUM RESEARCH CORPORATION	LIGGENTGES	N 06 21/02/89 \$69,655	GILES			89-NE-154
COINCIDENT PULSE TECHNIQUES FOR HYBRID OPTICAL-ELECTRONIC COMPUTER SYSTEMS		UNIV OF PITTSBURGH	CHIAKULLI	N 24 24/02/89 \$340,808	GILES			89-NE-199
AGGREGATION NETWORKS FOR UNCERTAINTY MANAGEMENT		UNIV OF MISSOURI	KRISHNAPURAM	N 24 24/02/89 \$164,072	GILES			89-NE-190

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PERFORMANCE ISSUES IN LARGE DISTRIBUTED ASSOCIATIVE MEMORIES UNIV OF MINNESOTA	VALDIMIR CHERKASSKY	N 36 24/02/89 \$228,675	GILES 89-NE-191	
HIGH SPEED DATA REDUCTION UTILIZING A NEURAL NETWORK UNIV OF MINNESOTA	DOUGLAS MILLER	N 36 24/02/89 \$292,599	GILES 89-NE-192	
A PROPOSAL TO: SEARCH FOR FUNDAMENTAL ADVANTAGES OF ANALOG OPTICAL PROCESSORS UNIV OF ALABAMA	CAULFIELD H.	N 36 08/03/89 \$303,415	GILES 89-NE-196	
BOOLEAN CATEGORY LEARNING: A CONNECTIONISTIC MODEL CALIFORNIA STATE UNIVERSITY	DENNIS VOLPER	N 36 13/03/89 \$418,914	GILES 89-NE-205	
A PROBLEM DATABASE FOR NEURAL NETWORK VECTOR QUANTIZATION, CODING, AND CLASSIFICATION OHIO STATE UNIV RESEARCH FOUNDATION	AMALT	N 12 17/03/89 \$39,963	GILES 89-NE-209	
RECONFIGURABLE OPTICAL INTERCONNECTS WITH SUBSTRATE MODE HOLOGRAPHIC OPTICAL ELEMENTS UNIV OF ARIZONA	KOSTLK R.	N 24 24/03/89 \$191,649	GILES 89-NE-210	
A SCALABLE 3-D WSI ARCHITECTURE FOR TERA-IPS NEURAL NETWORK PROCESSING UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	HWANG KAI	N 28 24/03/89 \$460,236	GILES 89-NE-211	
STUDIES OF RECONFIGURABLE OPTICAL INTERCONNECTION CONCEPTS ROCKWELL INTERNATIONAL	POCHI YEH	R 24 24/03/89 \$599,924	GILES 89-NE-212	
LUMINESCENCE AND ELECTROLUMINESCENCE PROPERTIES OF RARE EARTH COPEC GAAS CHICAGO UNIVERSITY	LOZYKOWSKI HENRYK	N 35 09/01/89 \$290,014	LITTON 89-NE-061	

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ICES 4 4TH INTERNATIONAL CONFERENCE ON ELECTRON SPECTROSCOPY		IBM ALMADEN RESEARCH CENTER	BRUNICLE	N 04 09/01/89 \$3,000	LITTON 89-NE-064		
CPTICAL SAMPLING OSCILLOSCOPE		AERODYNE RESEARCH INC	PUTNAM	N 06 10/01/89 \$50,000	LITTON 89-NE-068		
A NEW DIAGNOSTIC FOR HIGH DENSITY AND/OR HIGH TEMPERATURE PLASMAS USING AN ELECTROSTATIC LENS		COLUMBIA RESEARCH INSTRUMENTS CORP.	LEAL-QUIROS	N 06 21/02/89 \$48,350	LITTON 89-NE-149		
A HIGH SENSITIVITY AND HIGH RESOLUTION ION ENERGY ANALYZER FOR LOW TEMPERATURE (LESS THAN 1 EV) MEASUREMENTS		COLUMBIA RESEARCH INSTRUMENTS CORP.	LEAL-QUIROS	N 06 21/02/89 \$47,275	LITTON 89-NE-149		
DEVELOPMENT OF NEW SCIENTIFIC RESEARCH INSTRUMENTATION		ORCHIC ONE CORPORATION	CREWE	N 06 21/02/89 \$48,940	LITTON 89-NE-150		
DETERMINED OF THERMAL STRESS RESISTANCE OF COPPER ELECTRCPATE BY HOT RUTURE TESTS		ENK TESTING COMPANY INC	ZAKRAYSEK	N 06 21/02/89 \$49,849	LITTON 89-NE-151		
SCIENTIFIC INSTRUMENT FOR IMPROVING THE ACCURACY OF DATA MEASUREMENTS		KENTRIN INC.	KROLSKI	N 06 21/02/89 \$50,000	LITTON 89-NE-152		
LOW-NCISE, HIGH-CURRENT IMAGING ELECTRON MULTIPLIER DEVICE		CPTRON SYSTEMS, INC	NICOLI	N 06 21/02/89 \$57,275	LITTON 89-NE-153		
MEASUREMENT OF THE THICKNESSES OF 10-2 TO 10 MICRON SURFACE FILMS BY ELECTRON BACKSCATTERING PHOTOMETRICS, INC.		TRAN	NAH	N 06 21/02/89 \$49,463	LITTON 89-NE-180		

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DEVELOPMENT OF NEW SCIENTIFIC RESEARCH INSTRUMENTATION (SUBSURFACE INSTRUMENT) TOOMAY, MATHIS & ASSOCIATES, INC.	STOVER JOHN	N 06 21/02/83 \$42,633	LITTON 89-NE-181	
MECHANICAL PROPERTIES AND CRYSTAL GROWTH STUDIES OF SEMICONDUCTOR ALLOYS STANFORD UNIVERSITY	STEVENSON DAVID	R 24 23/02/89 \$195,756	LITTON 89-NE-186	
KINETIC ASPECTS OF STRAINED LAYER EPITAXY AND DEFECT FORMATION IN MOLECULAR BEAM EPITAXIAL GROWTH ON PLANAR ARC PATTERNED SUBSTRATE UNIV OF SOUTHERN CALIFORNIA	ANUPAM	R 06 23/02/89 \$80,000	LITTON 89-NE-187	
PICOSECOND FAST TRANSIENT PHOTOCONDUCTIVITY: PHOTOGENERATION MECHANISMS AND TRANSIENT TRANSPORT PROPERTIES UNIV OF CALIFORNIA	PEEGER ALAN	N 36 23/02/89 \$275,771	LITTON 89-NE-188	
A PROPOSAL FOR RESEARCH ON II-VI SEMICONDUCTOR SUPERLATTICES FURDUE RESEARCH FOUNDATION	GUNSFOR ROBERT	N 36 09/03/89 \$525,000	LITTON 89-NE-200	
THEORY OF SOLIDS: OPTICAL RESPONSE OF MATTER CITY COLLEGE - CUNY	BIRMAN JOSEPH	N 36 09/03/89 \$274,498	LITTON 89-NE-201	
CO-SPONSORSHIP OF A WORKSHOP ON THE PHYSICS AND CHEMISTRY OF MCT PALISADES INSTITUTE FOR RSCH SERVICES	GOLDFARB MARK	N 02 09/03/89 \$8,000	LITTON 89-NE-202	
IN-SITU MONITORING AND CONTROL OF THIN FILM DEPOSITION WITH SUB-ANGSTROM RESOLUTION STANFORD UNIVERSITY	PANTELL RICHARD	N 36 30/03/89 \$910,394	LITTON 89-NE-214	
OPTOELECTRONIC III-V HETEROSTRUCTURES ON SI SUBSTRATES COLORADO STATE UNIVERSITY	ROBINSON GARY	N 36 31/03/89 \$315,000	LITTON 89-NE-215	

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INSTITUTION			RECEIVEDC AMOUNT	PROGRAM MANAGER	START DATE
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FOSTER-MILLER INC	NEW STRAIN MEASUREMENT SYSTEMS FOR HIGH TEMPERATURE MATERIALS	JOSEPH BOYCE	N 06 10/01/89 \$59,946	ROSENSTEIN 89-NE-059	\$5,318 01/06/89 \$6,318
CARNEGIE-MELLON UNIVERSITY	SYNTHESIUM ON "THE ROLE OF LEDGES IN PHASE TRANSFORMATIONS"	HUBERT AARONSON	N 07 17/01/89 \$6,318	A ROSENSTEIN 89-NE-095	\$5,318 01/06/89 \$6,318
NIOBium SILICIDES FOR HIGH TEMPERATURE APPLICATIONS	JOHN LEMANOWSKI		N 36 07/02/89 \$196,213	A ROSENSTEIN 89-NE-102	\$149,963 01/06/89 \$476,213
CASE WESTERN RESERVE UNIVERSITY	A STUDY OF HIGH TEMPERATURE DUCTILITY ENHANCEMENT IN NIZALTA	CSMAN	N 24 13/02/89 \$193,376	D ROSENSTEIN 89-NE-105	
NEW MEXICO INSTITUTE OF MINING AND TECH	ANALYTICAL ELECTRON MICROSCOPE		N 12 13/02/89 \$30,000	A ROSENSTEIN 89-NE-106	\$30,000 01/04/89 \$30,000
KTECH CORPORATION	SPLIT HOPKINSON BAR FOR MATERIAL PROPERTIES TESTS AT VERY HIGH STRESS	EDWARD GAFFNEY	N 06 21/02/89 \$49,992	A ROSENSTEIN 89-NE-155	
PARKER MATERIALS INC.	DISPERSION STRENGTHENED NiAl ₃ INTERMETALLICS FOR ADVANCED STRUCTURAL APPLICATIONS	JHA	N 06 21/02/89 \$49,150	R ROSENSTEIN 89-NE-156	
UNIV OF CALIFORNIA	GRAIN BOUNDARY CAVITATION PROCESSES IN A NIZAL ALLOY AT ELEVATED TEMPERATURES	JAMES EARTHMAN, JR	N 18 10/03/89 \$75,000	A ROSENSTEIN 89-NE-203	\$75,000 01/07/89 \$75,000
ACADEMIC WESTERN UNIVERSITY	CONTROL OF NANOSTRUCTURES IN ULTRAHIGH-STRENGTH STEELS	CLSONA CO.	N 12 14/03/89 \$74,996	A ROSENSTEIN 89-NE-206	\$74,996 01/07/89 \$74,996

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TITLE (CONT.)		AMOUNT			TTT APT	
MODELING OF METAL MATRIX COMPOSITE (MMC) SOLIDIFICATION	MARY	N 36 28/01/89 \$545,653	A	ROSENSTEIN	\$69,500 01/08/89 89-NE-213	
UNIV OF TENNESSEE / SPACE INSTITUTE						
ELECTROPHORETIC AND ELECTROLYTIC DEPOSITION OF CERAMIC PARTICLES ON POROUS SUBSTRATES BOARD 89-0007 (GAL-CR)	LEAH	N 36 09/01/89 \$194,500	A	SCHIOLER	\$194,500 01/08/89 89-NE-060	
TECHNION R SCH & DEVELOPMENT FOUNDATION GAL-CR						
SPONSORSHIP SUPPORT OF THE SIXTH INTERNATIONAL CONFERENCE ON HIGH TEMPERATURES - CHEMISTRY OF INORGANIC MATERIALS NATIONAL INST. OF STANDARDS & TECHNOLOGY MASTIE	JOHN	N 06 25/01/90 \$5,000	A	SCHIOLER	39-NE-038	
STRENGTH, FATIGUE AND MICROSTRUCTURE OF CERAMICS						
NATIONAL INST. OF STANDARDS & TECHNOLOGY LAWN	ERIAN	N 36 20/01/89 \$420,000	A	SCHIOLER	89-NE-099	
NEW PROCESSING METHODS FOR TOUGHER CERAMIC COMPOSITES						
UNIV OF DELAWARE ACVARI	SURESH	N 36 14/02/89 \$426,051	A	SCHIOLER	89-NE-107	
THE KINETIC FORMULATION OF THE EMBRITTLEMENT-INDUCED DEGRADATION OF MECHANICAL PROPERTIES IN CERAMIC OR GLASS COMPOSITE MATERIALS AHN TA COMPANY	CAVIO	N 06 01/03/89 \$27,399	A	SCHIOLER	99-NE-195	
A MECHANICAL TESTING METHODOLOGY FOR CHARACTERIZATION OF, AND DESIGN WITH, HIGH TEMPERATURE MATERIALS OF LIMITED DUCTILITY FENSSELAER POLYTECHNIC INSTITUTE WOODFORD		N 36 08/03/89 \$300,121	A	WEINSTOCK	89-NE-197	
RUGGED, MULTIDETECTOR OPTICAL SCATTERMETER FOR NDE APPLICATIONS	RODNEY	N 06 11/01/89 \$49,567	A	WEINSTOCK	89-NE-091	
SANDIA SYSTEMS JACOBSON						
EXPERIMENTAL AND THEORETICAL STUDIES OF PROXIMITY EFFECT AND COULOMB BLOCKADE PHENOMENA IN JOSEPHSON JUNCTIONS WOLF	EDWARD	N 28 13/01/89 \$241,874	A	WEINSTOCK	\$140,032 15/05/89 89-NE-093	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
COULOMB INTERACTIONS IN SOLIDS AND HIGH-TC SUPERCONDUCTIVITY UNIV OF UTAH MATHIS	DANIEL	N 36 13/01/89 \$285,253	0 WEINSTOCK 89-NE-094	
NMR IMAGING OF ELASTOMERIC MATERIALS UNIV OF ARKANSAS	KOMOROSKI RICHARD	N 29 01/02/89 \$242,543	A WEINSTOCK 89-NE-100	\$142,563 01/06/89 \$242,543
DEVELOPMENT OF A NEW DETECTOR BASED ON A SUPERCONDUCTING SQUID SIEVERS RESEARCH INC	RICHARD	N 06 21/02/89 \$50,000	WEINSTOCK 89-NE-157	
ANALYTICAL X-RAY TOMOGRAPHY SRS TECHNOLOGIES	SHORT MICHAEL	N 06 21/02/89 \$41,500	WEINSTOCK 89-NE-158	
COMPUTER AIDED MAGNETIC FLAW DETECTION IMAGERY ASSOCIATES	SCHLANG ARTHUR	V 06 21/02/89 \$49,935	WEINSTOCK 89-NE-159	
DEVELOPMENT OF A NUCLEAR MAGNETIC RESONANCE SPECTROMETER FOR NDE TRI-VALLEY RESEARCH	PEARSON ROBERT	N 06 21/02/89 \$49,951	WEINSTOCK 89-NE-160	
MAPPING MATERIAL PROPERTIES WITH HIGH INTENSITY SOUND AT THE CRITICAL ANGLE. FAILURE ANALYSIS ASSOCIATES	MILDEBARD	N 06 21/02/89 \$58,949	WEINSTOCK 89-NE-161	
ATOMIC RESOLUTION MEASURING MACHINE SATCON TECHNOLOGY CORPORATION	HOCKAFER RICHARD	N 06 21/02/89 \$65,977	WEINSTOCK 89-NE-162	
DEVELOPMENT OF NEW SCIENTIFIC RESEARCH INSTRUMENTATION (SUPERCONDUCTIVITY INSTRUMENT) TOOMAY, MATHIS & ASSOCIATES, INC.	STOVER JOHN	N 06 21/02/89 \$50,514	WEINSTOCK 89-NE-162	

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INSTITUTION			RECEIVED AMOUNT	PROPOSAL #				
LARGE ARRAY SQUID MAGNETOMETER FOR NCE			N 06					
BIO MAGNETIC TECHNOLOGIES, INC		BLACK, JR	WILLIAM	22/02/89 \$69,053	WEINSTOCK	89-NE-193		
KINETICS OF THE FORMATION OF HIGH TEMPERATURE SUPERCONDUCTING COMPOUNDS	RESEARCH FOUNDATION FOR MENTAL HYGIENE	RUCKERSTEIN ELI		23/02/89 \$455,509	WEINSTOCK	89-IE-185		
SOURCES OF ANISOTROPY IN AMORPHOUS MAGNETIC THIN FILM	UNIV OF CALIFORNIA, SAN DIEGO	HELLMAN FRANCES		28/02/89 \$149,877	WEINSTOCK	89-NE-194		
CYNICAL PROPERTIES OF JOSEPHSON JUNCTION ARRAYS	OHIO STATE UNIV RESEARCH FOUNDATION	ENGER C.		08/03/89 \$72,000	WEINSTOCK	89-NE-199		
LARGE-SCALE PROCESSING OF HIGH CURRENT DENSITY, FLEXIBLE THIN FILMS OF OXIDE SUPERCONDUCTORS	COLORADO STATE UNIVERSITY	SAMPATH W.		23/03/89 \$522,792	WEINSTOCK	89-NE-209		
THEORY AND FABRICATION OF THREE TERMINAL QUANTUM INTERFERENCE DEVICES	UNIV OF ILLINOIS	ADESINAJI ILESANMI		09/01/89 \$557,642	WITT	89-NE-052		
REAL-TIME CORRELATOR INSTRUMENT WORKSTATION	INDUSTRIAL QUALITY INC	GAWNOR EDWIN		N 06				
A NON-COTRACT METHOD OF ACCURATELY MEASURING CRITICAL TEMP Tc IN SUPERCONDUCTING MATERIALS: INSTRUMENT PROTOTYPE SIMD	BELTRAN INC	CONSTANCE		11/01/89 \$50,000	WITT	89-NE-071		
PROJECTION INTERFEROMETRY FOR AUTOMATIC SURFACE INSPECTION	AMERICAN RESEARCH CORP OF VIRGINIA	WYGANT R		N 06				
				11/01/89 \$49,366	WITT	89-IE-072		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
NONCONTACTING PHOTOACOUSTIC INSTRUMENTATION FOR IMPROVED MATERIALS CHARACTERIZATION AND PROCESS MONITORING AMERICAN RESEARCH CORP OF VIRGINIA	ADEL	N 06 11/01/89 \$49,904	WITT 89-NE-073		
A HIGH RESOLUTION CRT EMPLOYING A NEW THIN FILM PHOSPHOR QUANTEC CORPORATION	GEORGE STORTI	N 06 11/01/89 \$49,972	WITT 89-NE-074		
LASER-INDUCED SURFACE CHEMICAL HETEROEPITAXY OF SEMIMAGNETIC MATERIALS AERODYNE RESEARCH INC	CHARTER	N 06 11/01/99 \$62,006	WITT 89-NE-075		
A SOFTWARE PACKAGE FOR THE COMPUTATIONAL MODELING OF METAL ORGANIC CHEMICAL VAPOR SCIENTIFIC COMPUTING ASSOCIATES INC	ANDREW SHERMAN	N 06 11/01/89 \$60,515	WITT 89-NE-076		
LOW TEMP (300C-450 C) HETEROEPITAXIAL GROWTH STUDIES OF GALLIUM ARSENIDE ON SILICON SUBSTRATES BY HYDROGEN RADICAL ASSISTED MOCVD UNIVERSAL ENERGY SYSTEMS INC	JAGANNATHAN G	N 06 11/01/89 \$49,633	WITT 89-NE-077		
NUMERICAL MODELING OF AMARAMCY-80MM SEMICONDUCTOR HETEROSTRUCTURES SCIENTIFIC RESEARCH ASSOCIATES, INC.	CAYAH P	N 06 11/01/89 \$60,073	WITT 89-NE-078		
ATOMISTIC MODELING OF II-VI MATERIALS FOR GROWTH STUDIES CHEMICAL DYNAMICS CORPORATION	MURTHY C	N 06 11/01/89 \$49,993	WITT 89-NE-079		
EFFECTIVE-MASS SUPERLATTICE: A NEW CLASS OF EAST SWITCHING QUANTUM PHASE SPACE DEVICES SCIENTIFIC RESEARCH ASSOCIATES, INC.	CAYAH	N 06 11/01/89 \$62,751	WITT 89-NE-080		
LASER PRODUCED HOT NEUTRAL ATOMIC BEAMS AS A NEW APPROACH TO VLSI FABRICATION TECHNOLOGY TETRA CORPORATION	MOENY WILLIAM	N 06 11/01/89 \$50,570	WITT 89-NE-081		

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ARTIFICIAL SUPERLATTICE INASSO FOR LWIR DETECTION				PROPOSAL #	END AMT
ELECTRO-OPTEK CORPORATION	CHAN	WILLIAM	N 06 11/01/89 \$65,022	WITT	99-NE-092
EVAL OF II-VI CRYSTALLINE MATRLS USING ELECTRNL BEAM ELECTROREFLECTION; OPTICAL CHAR OF IMPURITIES & SURFACE TREATMENT ON COTE	CHARLES EVANS & ASSOC.	MICHAEL HERMAN	N 06 11/01/89 \$45,518	WITT	89-NE-083
STRAIN ENGINEERED SI SUBSTRATES FOR GaAs EPITAXY	PRONKC	PETER	N 06 11/01/89 \$45,963	WITT	89-NE-034
DEVELOPMENT OF HING-INDIUM-CONTENT PSEUDOMORPHIC HEMTS FCR HIGH PERFORMANCE RF COMMUNICATIONS DEVICES	SEKULA-MCISE	PATRICIA	N 06 11/01/89 \$49,932	WITT	89-NE-095
ION BEAM HETEROEPITAXY OF Si-ON-CAF2	LEE	MICHAEL	N 06 11/01/89 \$65,022	WITT	89-NE-097
HETEROEPITAXY OF GaAs ON BUFFERED Si	CHAN	WILLIAM	N 06 11/01/89 \$55,949	WITT	89-NE-083
CUCU: Si FOR ELECTRONIC AND PHOTONIC APPLICATIONS -- INTERFACIAL SUPERCONDUCTIVITY INTEGRATED CRYSTAL SYSTEMS, INC.	MATTES	BRENTON	N 06 11/01/89 \$49,940	WITT	89-NE-039
AN INST FCR MECH TESTING OF MATRLS AT HIGH TEMP IN REACTIVE ATMOS WHILE UNDER OBSERVATION IN SCANNING ELECTRON MICROSCOPES	BLAIR	CAVID	N 06 11/01/89 \$49,337	WITT	89-NE-090
CORRELATION OF MATERIALS AND PROCESS EFFECTS WITH MESFET PARAMETER FLUCTUATIONS AND CIRCUIT YIELDS	SIGMAR	THOMAS	N 35 10/01/89 \$954,037	A WITT	\$125,000 15/05/89 \$854,037
STANFORD UNIVERSITY					

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
I- ANC 2-DIMENSIONAL SEMICONDUCTOR SYSTEMS, A NATO WORKSHOP EUROPEAN OFFICE OF AEROSPACE R&D	CAVIES EURIG	N 06 10/02/89 \$5,000	A WITT 89-NE-103	\$5,000 15/02/89 \$5,000
QUANTUM 1/F NUCLEUS IN HIGH TECHNOLOGY APPLICATIONS INCLUDING ULTRASMALL STRUCTURES AND DEVICES UNIV OF MISSOURI	HANDEL PETER	R 40 13/02/89 \$19C,988	A WITT 89-NE-104	\$81,178 01/07/89 \$300,798
PSEUDOMORPHIC POWER LASER ARRAY MATERIALS NORTHEAST SEMICONDUCTOR INC.	WOOD COLIN	N 06 21/02/89 \$50,003	WITT 89-NE-163	
CONTACT WINDOW LITH PROCESS FOR HETEROSTRUCTURE DEVICES KEYSTONE APPLIED RESEARCH, INC.	E. PARKMAN JOHN	N 06 21/02/89 \$49,967	WITT 89-NE-164	
HIGH INDIUM MOLE FRACTION HFET'S QUANTUM EPITAXIAL DESIGNS, INC.	MIERL THOMAS	N 06 21/02/89 \$56,687	WITT 89-NE-165	
THE IMPACT OF IMPROVED SUBSTRATE CRYSTALLINITY ON MBE GROWN HODOTE LAYERS FOR IR LASERS TWO-SIX INCORPORATES	NICHOLS CONALD	N 06 21/02/89 \$70,594	WITT 89-NE-166	
A MONOLITHICALLY INTEGRATED INP TRANSISTOR-LIGHT EMITTING DIODE OPTOELECTRONIC CIRCUIT ASTRC POWER DIVISION/ASTROSYSTEMS, INC.	JAMES MCNEELY	N 06 21/02/89 \$50,070	WITT 89-NE-167	
HETERJUNCTION BIPOLAR TRANSISTOR STRUCTURES ON SILICON SUBSTRATES KOPIN CORPORATION	SALERNO JACK	N 06 21/02/89 \$54,052	WITT 89-NE-168	
INTEGRATED INGAASP LED ON SILICON CIRCUITS ASTRC POWER DIVISION/ASTROSYSTEMS, INC.	JAMES MCNEELY	N 06 21/02/89 \$50,000	WITT 89-NE-169	

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THIN CRYSTALLINE INP ON INSULATING SUBSTRATES ASTRO POWER DIVISION/ASTROSYSTEMS, INC.	MCGEELEY JAMES	N 06 21/02/89 \$50,000	WITT 89-NE-170	
SEMICONDUCTOR-TINY JUNCTION ELECTRONIC DEVICE TINY ALLOY COMPANY	JOHNSON A.	N 06 21/02/89 \$49,875	WITT 89-NE-171	
STRAINED-LAYER (PSEUDOMORPHIC) MODULATION DOPED HETEROSTRUCTURE MATERIALS GROWTH ON GAAS NORTHEAST SEMICONDUCTOR INC.	WOOD COLIN	N 06 21/02/89 \$50,284	WITT 89-NE-172	
MODULATION DOPED HETEROSTRUCTURE MATERIALS GROWTH ON INP NORTHEAST SEMICONDUCTOR INC.	WOOD COLIN	N 06 21/02/89 \$50,325	WITT 89-NE-173	
VLSI GAAS HETEROJUNCTION FET CIRCUITS VITENSE SEMICONDUCTOR	DEWHINY IRA	N 06 21/02/89 \$50,851	WITT 89-NE-174	
HETEROSTRUCTURES: MATERIALS AND DEVICES CVD EQUIPMENT CORPORATION	CHANDRAN RAVI	N 06 21/02/89 \$46,375	WITT 89-NE-175	
NOVEL ELEMENTAL VAPOR TRANSPORT EPITAXY (EVTE) GROWTH OF ZNSE EMCORE CORPORATION	TOMPA GARY	N 06 21/02/89 \$49,365	WITT 89-NE-176	
IMPROVED ION SOURCE TECHNOLOGY SCHMIDT INSTRUMENTS	SCHMIDT HOWARD	N 06 21/02/89 \$50,000	WITT 89-NE-177	
PASSIVE AND ACTIVE ELECTROOPTIC DEVICES ON POLYMER HETEROSTRUCTURE WAVEGUIDES PHYSICAL OPTICS CORPORATION	CHEN RAY	N 06 21/02/89 \$49,392	WITT 89-NE-179	

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SINGLE FREQUENCY LASERS USING MULTI-METERSTRUCTURE DISTRIBUTED		BRAGG REFLECTORS CETEL CORPORATION	UNGAR	N 06 21/02/89 \$49,952	WITT		99-NE-179	
INTERFACE ROUGHNESSES OF QUANTUM WELLS PROCESSED BY TIME-RESOLVED PHOTOLUMINESCENCE	KANSAS STATE UNIVERSITY	JIANG	HONGXING	N 06 23/02/89 \$271,028	WITT		89-NE-194	
FOCUSSED ELECTRON BEAMS FOR SELECTED-AREA PROCESSING	OREGON GRADUATE CENTER FOR STUDY & RESEARCH	BELL	A.	N 36 27/02/89 \$414,851	WITT		89-NE-193	
STUDY OF THE PHYSICS AND DEVELOPMENT OF THE TECHNOLOGY FOR RESIDENT-TUNNELING DEVICES	LINCOLN LABORATORY/MIT	SOLLNER	T.C.L.G.	N 36 13/03/89 \$598,807	WITT A		\$79,737 01/05/99 \$509,797	
JSEP FELLOWSHIP PROGRAM	ARMY RESEARCH OFFICE	MINK	JAMES	N 12 14/C3/89 \$20,555	WITT A		\$20,555 01/04/89 \$45,555	

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ADAPTIVE FAULT TOLERANT MAMMALIAN NEURAL NETWORK: ANALYSIS AND SI	KENT STATE UNIVERSITY UNIV OF SOUTH FLORIDA	LINDSEY BRUCE	N 36 03/01/89 \$640,355	BERRY		89-NL-067			
STUDY OF SCN NEUROCHEMISTRY USING IN VIVO MICRODIALYSIS IN THE CONSCIOUS BRAIN: CORRELATION WITH OVERT CIRCADIAN RHYTHMS	KENT STATE UNIVERSITY	GASSNER DAVID	N 36 04/01/89 \$307,048	BERRY		89-NL-071			
NEURONAL COMPUTATION WITH TEMPORAL DERIVATIVES IN PULSE-CODEC SYSTEMS	MEMISTOR CORP	GLUCK MARK	N 06 04/01/89 \$49,705	BERRY		89-NL-072			
MULTICHANNEL CSP SPIKE DETECTOR	SPECTRUM SCIENTIFIC	WIGGINS JR HARVEY	N 06 11/01/89 \$50,000	BERRY		89-NL-082			
NEURAL MODELS OF HIPPOCAMPAL FUNCTION	NORTHWESTERN UNIVERSITY	SCHMAJUK NESTOR	N 36 12/01/89 \$325,795	BERRY		99-NL-094			
MECHANISMS OF LEARNING-INDUCED RECEPTIVE FIELD PLASTICITY IN AUDITORY CORTEX	UNIV OF CALIFORNIA	WEINBERGER NORMAN	N 36 12/01/89 \$416,682	BERRY		89-NL-095			
NON-SYNAPTIC REGULATORY MECHANISMS FOR ACETOSINE	LOS ALAMOS SCIENTIFIC LAB (DOE)	FOWLER JOHN	N 36 02/02/89 \$462,300	BERRY		89-NL-100			
PEAL TIME AS A ZEITGEBER FOR BIOLOGICAL CLOCKS	FLORIDA STATE UNIVERSITY	STEPHAN FRIEDRICH	N 48 08/02/89 \$277,104	BERRY		89-NL-103			
RELATIONSHIP, THE PINEAL GLAND AND CIRACCIAN RHYTHMS	TEXAS A & M RESEARCH FOUNDATION	CASSONE V	N 60 08/02/89 \$520,335	BERRY		89-NL-104			

LITTLE TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TCT AMT
XIX INTERNATIONAL CONFERENCE ON CHRONOBIOLOGY INT'L SOCIETY FOR CHRONOL BIOLOGY	HAYES DORA	N 12 03/02/89 \$12,000	A BERRY 83-NL-106	\$10,000 01/04/89 \$10,000
A SIMULATION TOOL FOR NEURAL NETWORK CYANICS JUDITH DAYHOFF & ASSOCIATES, INC.	DAYHOFF JUDITH	N 06 13/02/89 \$49,782	BERRY 89-NL-108	
DEVELOPMENT OF A NEW MULTICHANNEL MICROPROCBE SYSTEM FOR STUDY OF NEURAL NETWORKS AND CIRCUITS BYLANCER ASSOCIATES	BYLANCER E	N 06 15/02/89 \$50,000	BERRY 69-NL-115	
EFFECTS OF ENVIRONMENTAL AND PHARMACOLOGICAL ENTRAINING STIMULI ON A MULTIOSCILLATOR SYSTEM OF CIRCADIAN INTEGRATION WILWAUKEE PUBLIC MUSEUM	SPIELER RICHARD	N 36 15/02/89 \$261,712	BERRY 89-NL-116	
SEROTONERGIC SYSTEMS AND NON-PHOTIC ENTRAINMENT UNIV OF TORONTO	MROSOVSKY N.	N 36 15/02/89 \$319,309	BERRY 89-NL-117	
NEUROPHYSIOLOGICAL ANALYSIS OF CIRCADIAN RHYTHM ENTRAINMENT CALHOUSIE UNIVERSITY	RUSAK BENJAMIN	N 48 15/02/89 \$283,523	BERRY 89-NL-118	
POTASSIUM MECHANISMS IN CIRCADIAN RHYTHMS UNIV OF CALIFORNIA, SAN DIEGO	KRIPKE DANIEL	N 36 15/02/89 \$343,509	BERRY 89-NL-119	
HUMAN SUPRACHIASMATIC NUCLEI: NEUROANATOMIC AND CIRCADIAN ANALYSIS STATE UNIVERSITY OF NEW YORK	STOPA EDWARD	N 36 15/02/89 \$281,686	BERRY 89-NL-120	
REGULATION OF THE HUMAN CIRCADIAN TIMING SYSTEM MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LYNCH HARRY	N 36 15/02/89 \$327,262	BERRY 89-NL-121	

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DETERMINANTS AND NEUROANATOMICAL CONTROLS OF THE CIRCADIAN DRINKING RHYTHM	UNIV OF IOWA	JOHNSON	N 36 \$336,079	15/02/89 BERRY 89-NL-122	
MOLECULAR BIOLOGY OF A NEURONAL CIRCADIAN OSCILLATOR	MARINE BIOLOGICAL LABORATORY	STRUPWASSER	N 36 \$404,934	15/02/89 BERRY 89-NL-123	
COUPLING MECHANISM(S) OF THE BIOLOGICAL CLOCK	COLUMBIA UNIVERSITY	SILVER	N 36 \$370,200	15/02/89 BERRY 89-NL-124	
TEMPERATURE, THE SUPRACHIASMATIC NUCLEI AND CIRCADIAN ORGANIZATION	UNIV CF CALIFORNIA	ZUCKER	N 36 \$444,405	15/02/89 BERRY 89-NL-125	
RELATIONSHIP OF MULTIPLE OSCILLATOR DESYNCHRONY TO TIMING OF OPERANT PERFORMANCE FOLLOWING CHANGES IN LIGHT/DARK REGIMEN	UNIV CF NEBRASKA	LYNN	N 36 \$554,530	15/02/89 BERRY 89-NL-127	
CHRONOBIOLOGY: REGULATION OF CIRCADIAN TIMING SYSTEMS	UNIV OF CALIFORNIA	MCGRATH	N 48 \$875,457	15/02/89 BERRY 89-NL-127	
EFFECTS OF ACUTE CIRCADIAN PHASE ADVANCE ON SUBSEQUENT SUSTAINED PERFORMANCE	UNIV CF PENNSYLVANIA	CENNIS	N 36 \$223,945	21/02/89 BERRY 89-NL-129	
LOCATION AND NATURE OF A SECONDARY CIRCADIAN PACEMAKER	UNIV CF MISSOURI	CINGES	N 36 \$228,461	21/02/89 BERRY 89-NL-129	
PHASE-RESETTING OF THE CIRCADIAN REST-ACTIVITY CYCLE BY BENZODIAZEPINES: NEURAL MECHANISMS AND SITES OF ACTION	INSTITUTE FOR CIRCADIAN PHYSIOLOGY	MOORE-EDE	N 36 \$527,175	21/02/89 BERRY 89-NL-130	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ORGANIZATION OF THE HUMAN CIRCADIAN SYSTEM STATE UNIVERSITY OF NEW YORK UNIV OF PITTSBURGH	MOORE ROBERT MONK TIMOTHY	N 36 21/02/89 \$452,312	BERRY BERRY BERRY	99-NL-131 99-NL-132
CIRCADIAN REACTIONS AND PSYCHOLOGICAL CONSEQUENCES UNIV OF CALIFORNIA DUDÉK	F	N 36 21/02/89 \$440,206	BERRY	99-NL-132
INTRACELLULAR PHYSIOLOGY OF THE RAT SUPRACHIASMATIC NEUROUS: ELECTRICAL PROPERTIES, NEUROTRANSMISSION, AND EFFECTS OF NEURMODULATOR DUDEK		N 36 21/02/89 \$502,877	BERRY	99-NL-133
NEUROCHEMICAL BASIS OF THE BENEFICIAL EFFECTS OF CHRONOBIOTIC DRUGS FLORIDA A&M UNIVERSITY	SOLIMAN PAGOI	N 36 21/02/89 \$481,079	BERRY	99-NL-134
THE ORGANIZATION OF THE SUPRACHIASMATIC CIRCADIAN PACEMAKER UNIV OF ILLINOIS	GILLETTE MARTHA	N 36 21/02/89 \$469,083	BERRY	99-NL-135
SCN AND BEHAVIOR: A RECOVERY OF FUNCTION PARADIGM UNIV OF PENNSYLVANIA	ADLER	NORMAN	N 36 21/02/89 \$281,105	BERRY
CIRCADIAN RHYTHMS AND STRESS UNIV OF TEXAS HEALTH SCIENCE CTR	DAFNY	NACHUM	N 36 21/02/89 \$473,354	BERRY
PHOTIC REGULATION OF GENE EXPRESSION AND CELLULAR ACTIVITY IN THE SCN UNIV OF ROCHESTER	EARNEST	CAVIO	N 36 21/02/89 \$300,282	BERRY
THE MONTANE VOLE: A MODEL SYSTEM FOR ANALYSIS OF CIRCADIAN RHYTHM INTERACTIONS UNIV OF UTAH		CAROL	N 36 21/02/89 \$266,182	BERRY
			N 36 21/02/89 \$266,182	BERRY
			99-NL-139	

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TITLE (CONT.)		AMOUNT	PROGRAM MANAGER	START DATE
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CONTROL OF CIRACCIAN BEHAVIOR BY TRANSPLANTED SUPRACHIASMATIC NUCL EI UNIV OF VIRGINIA	MENAKER MICHAEL	N 36 21/02/89 \$384,935	BERRY	89-NL-140
CELLULAR ANALYSIS OF A MAMMALIAN CIRACCIAN PACEMAKER SYSTEM UNIV OF VIRGINIA	BLOCK GENE	N 36 21/02/89 \$455,539	BERRY	89-NL-141
NEURAL MECHANISMS OF PRIMATE CIRACCIAN RHYTHMS UNIV OF CALIFORNIA	FULLER CHARLES	N 36 21/02/89 \$407,976	BERRY	89-NL-142
RELATIONSHIP ON THE CIRACCIAN PACEMAKER IN SIBERIAN TAMSTERS WELLESLEY COLLEGE	CARRON JANET	N 24 28/02/89 \$192,621	BERRY	89-NL-143
NEURAL TRANSPLANTATION OF THE SUPRACHIASMATIC NUCLEUS UNIV OF CINCINNATI	LEMAN MICHAEL	N 36 28/02/89 \$287,735	BERRY	89-NL-144
THE CIRACCIAN OSCILLATOR: LIMITS, SPEED OF, AND PHASE-RELATIONSHIP S DURING RE-ENTRAINMENT AND THE EFFECTS OF LIGHT, NEUROTRANSMITTER SOUTHERN ILLINOIS UNIVERSITY	FERRARO JAMES	N 36 28/02/89 \$297,067	BERRY	89-NL-145
MODULATION OF THE MAMMALIAN BIOLOGICAL CLOCK BY SCHECULET LOCOMOTO RACTIVITY AND CHRONOPHARMACOLOGICAL AGENTS STANFORD UNIVERSITY	HELLER H	N 48 28/02/89 \$698,398	BERRY	89-NL-146
DIURNAL REGULATION OF BETA-1 AND BETA-2 ADRENERGIC RECEPTOR BINDING S AND mRNA BY GLUCOCORTICOIDS IN THE RAT HIPPOCAMPUS FISCHER FELLER UNIVERSITY	MCWEN ERUCE	N 36 28/02/89 \$334,719	BERRY	89-NL-147
CIRACCIAN AND HEMICIRACCIAN PROPERTIES OF HUMAN RHYTHMS: DATA APPR AISAL FOR 12H COMPONENTS AND MODELING AS AN ENSEMBLE OF OSCILLATOR HARVARD UNIVERSITY	KRCNAUER RICHARD	N 36 28/02/89 \$293,100	BERRY	89-NL-148

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PHYSIOLOGICAL MECHANISMS MEDIATING EFFECTS OF STIMULATED ACTIVITY ON CIRCADIAN CLOCK NORTHWESTERN UNIVERSITY	FRED TUREK	N 48 28/02/89 \$535,781	BERRY 89-NL-149	
EFFECTS OF THYROIDECTOMY ON RAT ACTIVITY RHYTHMS: POTENTIAL NEURAL LOCUS AND INTERACTION WITH SEX, GONADAL HORMONES, PINEAL MECOMRON	CONRAD CONRAD	N 24 28/02/89 \$192,463	BERRY 89-NL-150	
NEUROPHARMACOLOGY OF PHASE-SHIFTING UNIV OF PENNSYLVANIA	BAUER MARK	N 36 28/02/89 \$259,158	BERRY 89-NL-151	
PHASE-SHIFTING EFFECT OF LIGHT AND ACTIVITY ON THE HUMAN CIRCADIAN CLOCK UNIV OF CHICAGO	VAN CAUTER EVE	N 48 28/02/89 \$542,639	BERRY 89-NL-152	
ENTRAINMENT OF THE HUMAN CIRCADIAN SYSTEM BY BRIGHT LIGHT AND SOCIAL TIME CUES CORNELL UNIVERSITY	POLAK CHARLES	N 24 28/02/89 \$173,215	BERRY 89-NL-153	
CYTOKEMICAL ORGANIZATION OF THE RETINO-SUPRACHIASMATIC SYSTEM YALE UNIVERSITY SCHOOL OF MEDICINE	VAN DEN FOL ANTHONY	N 36 28/02/89 \$480,556	BERRY 89-NL-154	
PERFORMANCE MODIFICATION BY ATTENTIONAL DRUGS, THERMOREGULATORY AGONISTS, AND MOLECULAR EFFECTS OF COLD STRESS AT A SINGLE BRAIN SITE UNIV OF MISSOURI	GARTH RESCH	N 36 01/03/99 \$337,259	BERRY 89-NL-160	
KINETICS OF RECYCLING OF SYNAPTIC VESICLES ROCKEFELLER UNIVERSITY	WURLBUT WILLIAM	N 36 13/02/89 \$356,359	BERRY 89-NL-165	
REGULATION OF CIRCADIAN RHYTHMS WITH EIGHT LIGHT AND MELATONIN CREGEN HEALTH SCIENCES UNIVERSITY	LEWY ALFRED	N 36 13/02/89 \$408,797	BERRY 89-NL-167	

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TITLE (CONT.)	INVESTIGATOR					
INSTITUTION						
SUPPRESSION OF ENDOGENOUS CIRCADIAN AMPLITUDE WITH BRIGHT LIGHT						
ERIGHAM & WOMEN'S HOSPITAL	CZEISLER	CHARLES	BERRY	N 36 \$297,444	13/03/89	89-NL-168
THE ROLE OF PINEAL MELATONIN ON THE COUPLING OF OSCILLATORS IN THE CIRCADIAN SYSTEM OF THE RODENTS						
UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO	AGUILAR-ROBLEDO	RAUL	BERRY	N 36 \$163,279	13/03/89	99-NL-169
NEURO-ENDOCRINE MEDIATION OF PHASE-SHIFTING IN HAMSTERS						
ETHANY COLLEGE	BURNS	JOHN	BERRY	N 36 \$47,588	13/03/89	89-NL-170
THYROID MODULATION OF CIRCADIAN SYSTEMS						
HARVARD COLLEGE	SCHULL	JONATHAN	BERRY	N 36 \$328,153	13/03/89	89-NL-171
LONGITUDINAL MULTIVARIATE APPROACH TO RESETTING OF THE MULTIFREQUENCY SYSTEM						
LTV OF MINNESOTA	HALBERG	FRANZ	BERRY	N 36 \$506,781	13/03/89	89-NL-173
PHOSPHOPROTEIN REGULATION OF SYNAPTIC REACTIVITY						
NORTHWESTERN UNIVERSITY	ROUTTENBERG	ARYEH	R 36 BERRY	27/03/89 \$511,430	27/03/89	89-NL-197
BARRIER FUNCTION OF MAMMALIAN SKIN						
GORDON RESEARCH CONFERENCES INC	GUY	RICHARD	BERRY	N 12 \$5,000	31/03/89	89-NL-198
ATMOSPHERIC DEPOSITION OF PHENOLS AND THEIR EFFECTS ON PLANT GROWTH						
AND PHYSIOLOGY	FOSTER	JEFFREY	CERVERNY	N 36 \$318,122	03/01/89	89-NL-068
ATMOSPHERIC DEPOSITION OF PHENOLS AND THEIR EFFECTS ON PLANT GROWTH						
AND PHYSIOLOGY	WILLIE		CERVERNY	N 36 \$332,556	03/01/89	89-NL-061
STRICHMERICOTYLENE AND METHYL CHLOROFORM						
CENTRAL STATE UNIVERSITY						

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	INITIATE START DATE
INSTITUTION			AMOUNT	PROPOSAL #		TOT AMT
THE FATE OF A MIXTURE OF AN ORGANIC ARSENICAL (MSMA), A PHENOXYACETIC ACID (2, 4-O) AND AN ORGANOLEAD (CTEL) IN THE ENVIRONMENT	TULANE UNIVERSITY	A. ABDELGHANI	N 36 03/01/89 \$438,568	CERVENY		
ISOLATION OF THE TYPE I PNEUHOCYTE AS AN IN VITRO METHOD TO DETECT FULMINARY TOXICANTS	MASON RESEARCH INSTITUTE	LOUIS SENDERBACH	N 36 04/01/89 \$441,167	CERVENY		
EARLY IDENTIFICATION OF PERFORMANCE DECREMENTS DUE TO TOXIC CHEMICAL EXPOSURE	ESSEX CORPORATION	KENNEDY ROBERT	N 06 10/01/89 \$52,669	CERVENY		
NEW DIAGNOSTIC TECHNIQUE OF NMR SIGNALS BY A NOVEL CRYSTAL WITH FREQUENCY RESPONSE	AMERICAN RESEARCH CORP OF VIRGINIA	NIIMURA MASANORU	N 06 10/01/89 \$49,414	CERVENY		
V INTERNATIONAL CONGRESS OF TOXICOLOGY AND 2ND INA MEETING	EUROPEAN OFFICE OF AEROSCH AND DEVELOP	JAMES McDUGAL	N 09 13/01/89 \$10,000	CERVENY	A	\$10,000
FREE RADICALS IN ORGANISMS EXPOSED TO FOSSIL FUELS	PACIFIC NORTHEAST RESEARCH FOUNDATION	MALINS CONALO	N 36 06/02/89 \$373,185	CERVENY		
NEW FLUORESCENCE METHODOLOGY FOR DETECTING DNA ADDUCTS	NORTHEASTERN UNIVERSITY	GIESE ROGER	N 36 08/02/89 \$427,513	CERVENY		
A BIOLOGICAL MODEL OF THE EFFECTS OF TOXIC SUBSTANCES	TOPICAL TESTING INC.	MARTIN HERVE	N 06 09/02/89 \$53,500	CERVENY	A	\$50,000
CLINICAL PULSATING BUBBLE SURFACTOMETER	ELECTRONICS CORPORATION	GORDY STEPHEN	N 06 14/02/89 \$49,434	CERVENY		

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TITLE (CONT.)	INVESTIGATOR		
INSTITUTION			
ACQUIRED GENETIC INSTABILITIES IN BLOOD LYMPHOCYTES: THEIR ROLE AS EARLY, VERSATILE INDICATORS OF CELLULAR TOXIC INSULT IN HUMANS EX ENVIRONMENTAL GENETOX, INC.	N 06 14/02/89 \$43,720	CERVENY 89-NL-110	
JESUS			
FORTABLE LIQUID FLOW METER INSTRUMENTATION	N 06 14/02/89 \$50,000	CERVENY 89-NL-111	
YELLOWSTONE ENVIRONMENTAL SCIENCE	HUNTER	ROBERT	
PLASMA GLOW CLEANER/STERILIZER			
ELECTRONETICS CORPORATION	CORDY	ROBERT	
DEVELOPMENT OF A COLLECTIVE PROTECTION SHELTER TEST SYSTEM	STEPHEN		
TRACER TECHNOLOGIES	KERRIN		
A LASER/MICROBIAL BIASSAY THAT USES GENETICALLY MODIFIED BACTERIA TO RAPIDLY DETECT TOXICANTS TECHNICAL ASSESSMENTS SYSTEMS, INC.	FELKNER	CECIL	
	N 06 15/02/89 \$49,748	CERVENY 89-NL-113	
CITINGNISHED SPEAKER PRESENTATIONS TO AAVRL AND ASD COMMUNITIES			
AEROSPACE MEDICAL RESEARCH LABORATORY	GACHERT	ROBERT	
COGNITIVE FACTORS AFFECTING PERCEPTION	TOLCCIT	MARTIN	
DECISION SCIENCE CONSORTIUM INC			
A KNOWLEDGE STRUCTURE APPROACH TO LEARNING AND TEACHING			
DECISION SCIENCE CONSORTIUM INC	LEODC	JOHN	
	N 06 18/01/89 \$55,918	FREGLY 89-NL-088	
A COMPUTERIZED TEST BATTERY FOR IDENTIFYING INDIVIDUAL DIFFERENCES IN COGNITIVE ABILITIES			
ESSEX CORPORATION	KENNEDY	ROBERT	
	N 06 18/01/89 \$53,664	FREGLY 89-NL-089	

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INSTITUTION			RECEIVED	PROGRAM MANAGER	START DATE
			AMOUNT	PROPOSAL #	TOT AMT
NEUROCOGNITIVE RESEARCH WORKSTATION			N 06 19/01/89 \$58,476	FREGLY	\$12,042 01/04/89
SAM TECHNOLOGY, INC.	GEVINS	A			\$12,042
7TH INTERNATIONAL CONFERENCE ON BIOMAGNETISM			N 06 24/01/89 \$12,042	FREGLY	
NEW YORK UNIVERSITY	WILLIAMSON	SAMUEL			
A MODEL FOR LEARNING FROM EXAMPLES			N 36 24/01/89 \$172,979	FREGLY	
GEORGIA INSTITUTE OF TECH	CATRAMBOE	RICHARD			
OPERATIONAL TCURS			N 12 30/01/89 \$13,000	FREGLY	\$13,000 30/01/89
AEROSPACE MEDICAL DIVISION	BURTON	RUSSELL			
INITIATING THE SYLVIA BEACH LANGUAGE COMPREHENSION CONFERENCE			N 06 02/02/89 \$554,800	FREGLY	\$5,548 01/07/89
UNIV OF OREGON	GERNSBACHER	MORTON			\$5,548
CONFERENCE ON THE PERCEPTION OF STRUCTURE			N 12 28/02/89 \$4,000	FREGLY	\$4,000 01/04/89
DUKE UNIVERSITY	LOCKHEAD	GREGORY			
HOW DECISION MAKERS DETERMINE INFORMATION RELEVANCE			N 12 01/03/89 \$49,934	FREGLY	\$4,000 01/04/89
PROGRAM DEVELOPMENT SYSTEMS INC	SCHWARTZ	JEFFREY			
PERFORMANCE MEASURES INVOLVING REACTION TIMES AND PERCEPTION CHANGES UNDER G-STRESS CCA ASSOCIATION	AGARWAL	GYAN	N 06 01/03/89 \$49,500	FREGLY	\$9,500 01/09/89
CONFERENCE ON AFFECT AND FLASHBULB MEMORIES			N 12 08/03/89 \$9,500	FREGLY	\$9,500 01/09/89
EMORY UNIVERSITY	WINDOGRAD	EUGENE			
					\$9,500

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		AMOUNT	PROPOSAL #	PROPOSAL #		
CRAY-2 TIME FOR EEG SYSTEMS LABORATORY EEG SYSTEMS LAB	GEVINS ALAN	N 06 13/03/89 \$10,000	A FREELY 89-NL-166		\$10,000 08/03/89 \$10,000	
PIAS IN REPORTING LOCATION UNIV OF CHICAGO	HUTTENLOCHER JANELLEN	N 36 16/03/89 \$346,309	FREELY 89-NL-178			
FACTORS CONTROLLING VOLUNTARY AND INVOLUNTARY ALLOCATION OF VISUAL ATTENTION UNIV OF KANSAS	JUOLA JAMES	N 36 21/03/89 \$184,153	FREELY 89-NL-179			
READING: INTERACTION WITH MEMORY NORTHWESTERN UNIVERSITY	MCKOON GAIL	N 60 21/03/89 \$179,269	FREELY 89-NL-180			
PHASE-ORDERED EVENT-RELATED RHYTHMS PRECEDING A COGNITIVE TARGET INSTITUTE OF PHYSIOLOGY	BASAR E	N 36 24/03/89 \$252,500	FREELY 89-NL-183			
LIFE SCIENCES BASIC RESEARCH (CALS) TOR GEOPHYSICS CORPORATION	KON JOSEPH	N 06 10/01/89 \$45,950	TANGNEY 89-NL-074			
THE PARAMETRIC AVALANCHE: A NEW COMPUTATIONAL MODEL FOR NEUROLOGI CAL PHENOMENA MARTINGALE RESEARCH CORPORATION	DAMES ROBERT	N 06 10/01/89 \$49,927	TANGNEY 89-NL-075			
DETERMINING THE RULES THAT GOVERN DISPLAY FIDELITY: THE PSYCHO PHYSICS OF VECTON ESSEX CORPORATION	KENNEDY ROBERT	N 06 10/01/89 \$54,144	TANGNEY 89-NL-076			
TAXONOMY AND TRAINING REGIMES FOR PILOT DISORIENTATION ESSEX CORPORATION	KENNEDY ROBERT	N 06 10/01/89 \$50,420	TANGNEY 89-NL-077			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED			STATUS PROPOSAL #	INITIATE START DATE TOT AMT
		AMOUNT	05	11/01/89 \$54,160		
HIGH SPEED MACHINE/MAN COMMUNICATION LINK VARITRANS INTERNATIONAL CORPORATION	LOGAN		N	05 11/01/89 \$54,160	TANGNEY 89-NL-030	
LIFE SCIENCES BASIC RESEARCH DIGITAL SIGNAL CORPORATION	JASLOW		N	06 11/01/89 \$50,518	TANGNEY 89-NL-081	
DEVELOPMENT OF A VISUAL TESTING TAXONOMY, MANOOOK, AND INSTRUMENT ESSEX CORPORATION	KENNEDY		N	06 13/01/89 \$56,736	TANGNEY 89-NL-086	
INSTRUMENTATION FOR RECORDING EYE AND HEAD MOVEMENTS NORTH DAKOTA STATE UNIVERSITY	ROBERT ENCERLE		N	12 24/01/89 \$120,000	TANGNEY 89-NL-094	
STUDIES OF LOCAL AND GLOBAL MOTION PERCEPTION UNIV OF MCGILL	BREITMEYER		N	36 24/01/89 \$223,586	TANGNEY 89-NL-095	
MODELING STUDY OF THE COCHLEA AND THE COCHLEAR NUCLEUS UNIV OF CONNECTICUT HEALTH CENTER	BRUNO KIM		N	36 24/01/89 \$311,170	TANGNEY 89-NL-096	
AUDITORY SPECTRO-TEMPORAL PATTERN ANALYSIS UNIV OF NORTH CAROLINA	CUCK HALL		R	60 02/02/89 \$642,456	TANGNEY 89-NL-099	
ESTIMATING RATE OF DECAY OF ACTIVATION IN SEMANTIC MEMORY USING A SPEECH-ACCURACY METHODOLOGY UNIV OF IOWA	KIM LOHMANN		N	08 06/02/89 \$22,198	TANGNEY 89-NL-101	\$22,198 01/07/89
RESEARCH CONFERENCE ON IMPLANTABLE AUDITORY PROSTHESES KRESGE HEARING RESEARCH INSTITUTE	JOSEPH DAVID ERYAN PFINGST		N	06 01/03/89 \$12,100	TANGNEY 89-NL-157	

TITLE INSTITUTION	TYPE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
EFFECTS ON LEARNING OF INDIVIDUAL DIFFERENCES IN INFERRING ABILITY UNIV OF GEORGIA	NEW SCIENTIFIC RESEARCH INSTRUMENTATION WITH SPECIAL SENSORS TO MEASURE THE IMPACT OF UNIQUE ENVIRONMENTAL SOUNDS ON HUMAN RESPONSE	BRUCE	N 24 01/03/89 \$81,069	TANGNEY 89-NL-159	
	MEASUREMENTS RESEARCH INC.	EDMOND			
VISUAL PERCEPTION AND COGNITION OF SMOOTHLY CURVED SURFACES BRANDEIS UNIVERSITY	PSYCHOPHYSICS OF COMPLEX SOUNDS AND SPEECH	JAMES	N 36 13/03/89 \$301,703	TANGNEY 89-NL-163	
	STATE UNIVERSITY OF NEW YORK	RICHARD	N 26 13/03/89 \$227,434	TANGNEY 89-NL-164	
	PERCEPTION OF ACCUSTIC SOURCE CHARACTERISTICS	PASTCRE	N 36 13/03/89 \$241,729	TANGNEY 89-NL-172	
	STATE UNIVERSITY OF NEW YORK	RICHARD			
COMPUTER BASED ANALYSIS AND SYNTHESIS OF RETINAL FUNCTION UNIV OF CALIFORNIA	RESPONSE DEVICES AND COGNITIVE TASKS	FRANK	N 24 13/03/89 \$198,590	TANGNEY 89-NL-174	
	CASE WESTERN RESERVE UNIVERSITY	DOUGLAS	N 24 13/03/89 \$84,633	TANGNEY 89-NL-175	
	SPACE CONSTANCY ON VIDEO DISPLAY TERMINALS	DETERMAN			
	UNIV OF CALIFORNIA	BRIDGEMAN	N 48 13/03/89 \$429,318	TANGNEY 89-NL-176	
FLEXIBILITY IN COMPLEX LEARNING AND COGNITIVE PERFORMANCE STANFORD UNIVERSITY	SNOW	RICHARD	N 12 13/C3/85 \$24,914	TANGNEY 89-NL-177	

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INVESTIGATOR	AMOUNT	RECEIVED	AMOUNT	PROPOSAL #			
AUDITORY ATTENTION TO RAPID SIGNAL SEQUENCES	UNIV OF TEXAS	COWLING	N 36	TANGNEY	21/03/89	89-NL-181	
THE INTERACTION OF SENSORY AND PERCEPTUAL VARIABLES: THE SPATIAL T EMPORAL, ORIENTATION, AND MOTION RESPONSE TO FIGURE AND GROUND	UNIV OF DENVER	EVAN WONG	\$421,914				
MODEL FOR HUMAN COLOR PERCEPTION AND VISUAL ADAPTATION	UNIV OF INDIANA	GUTH	N 36	TANGNEY	21/03/89	89-NL-182	
TRAINING IN METHODS IN COMPUTATIONAL NEUROSCIENCE	UNIV OF INDIANA	HALVORSON	S	\$171,008	24/03/89	89-NL-184	
MARINE BIOLOGICAL LABORATORY		HARLYN					
GLOBAL INFORMATION PROCESSING STRATEGIES IN TWO-DIMENSIONAL DISCRI MINATIONS	YALE UNIVERSITY SCHOOL OF MEDICINE	HIRSCH	N 12	TANGNEY	24/03/89	89-NL-185	
		JOY	\$35,000				
			R 36	TANGNEY	24/C3/89	89-NL-186	
			\$857,514				

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
				Q 24 06/01/89 \$119,506	BAROUCH 89-NM-180
APPROXIMATE EVALUATION OF RELIABILITY AND RELATED QUANTITIES VIA PERTURBATION TECHNIQUES UNIV OF CINCINNATI	WALKER				
NONPARAMETRIC STATISTICAL ANALYSIS OF SOME LIFE DISTRIBUTION UNIV OF NORTH CAROLINA	RAM	N 24 06/01/89 \$94,468	BAROUCH 89-NM-193		
TOPICS IN LARGE DEVIATION THEORY UNIV OF CINCINNATI	ERYC				
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: A UNIFIED STATISTICAL METHODOLOGY FOR REASONING ABOUT IMAGES DECISION SCIENCE CONSORTIUM INC	KATHRYN	N 06 09/01/89 \$60,012	BAROUCH 89-NM-197		
NUMERICAL SOLUTIONS OF THE BASIC INTEGRAL EQUATION OF ESTIMATION THEORY KANSAS STATE UNIVERSITY	RAMM	N 36 10/01/89 \$117,455	BAROUCH 89-NM-199		
RESEARCH ON CA-LINE GOODNESS OF FIT AND PARAMETRIC MODELLING METHODS FOR ADAPTIVE SPC NORTH CAROLINA STATE UNIVERSITY	QUESENSERRY C.	N 36 17/01/89 \$187,761	BAROUCH 89-NM-218		
SUPER COMPUTING IN EXPERIMENTAL DESIGN UNIV OF ILLINOIS	JEROME SACKS	N 06 24/01/89 \$20,000	BAROUCH 89-NM-235		
COMPUTERIZING BAYESIAN METHODS FOR IMPROVING SYSTEM PERFORMANCE: THE TWO-STAGE BAYESIAN PROCEDURE NORTHEASTERN UNIVERSITY	HEISING CARLYN	N 24 24/01/89 \$179,160	BAROUCH 89-NM-237		
SEQUENTIAL METHODS IN SOFTWARE RELIABILITY AND CENSORED SURVIVAL ANALYSIS STATE UNIVERSITY OF NEW YORK	ZACKS	N 36 24/01/89 \$294,192	BAROUCH 89-NM-239		

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MULTI-DIMENSIONAL, NCN-CAUSAL MODELS FOR HIGH-RESOLUTION SIGNAL E		IMAGE RECONSTRUCTION UNIV OF ILLINOIS	KARALAMANGALA A.	N 36 24/01/89 \$234,418	BARUCH 89-NM-239			
NEW DIRECTIONS IN REALIZATION AND SYNTHESIS OF TWO-DIMENSIONAL		DIGITAL FILTERS KRIGHT STATE UNIVERSITY	SHAW ARNAB	N 24 24/01/89 \$329,153	SAROUCH 69-NM-241			
ARM A BISPECTRUM IDENTIFICATION OF CYCLOSTATIONARY PROCESSES		EIGENTEA MUSIC	WAYNE	N 06 24/01/89 \$48,255	SAROUCH 89-NM-248			
REAL TIME ADAPTIVE IDENTIFICATION AND PRECISION OF FLUTTER		SCIENTIFIC SYSTEMS INC.	MEHRA RAHMAN	N 06 24/01/89 \$55,994	BARUCH 89-NM-249			
STATE ESTIMATION USING QUADRATIC FILTERING TECHNIQUE		TECHNOLGY SYSTEMS, INC.	FARUQI FARHAN	N 06 24/01/89 \$28,318	SAROUCH 99-NM-250			
A SET-VALUED APPROACH TO MULTIPLE-TARGET TRACKING		BRIGHAM YOUNG UNIVERSITY	STIRLING KYNNE	N 36 02/02/89 \$203,662	SAROUCH 99-NM-252			
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE		WAGNER DANIEL H ASSOCIATES, INC	OVERTON ROBERT	N 06 13/02/89 \$39,457	SAROUCH 89-NM-287			
FAST CIVICE AND CONQUER METHODS FOR FINDING ALL ROOTS OF A COMPLEX		FOLYNCHIAL SYNAPSE COMPUTER SERVICES	BAKER HENRY	N 06 13/02/89 \$50,000	SAROUCH 89-NM-288			
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE (INNOVATIVE NONLINEAR C-ITAL FILTERING)		ANALYTICON CORP.	WAGNER J.	N 06 15/02/89 \$50,000	SAROUCH 89-NM-309			

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TITLE (CONT.)	RECEIVEC AMOUNT	PROPOSAL #	START DATE	START DATE
INSTITUTION				TCT 447
STOCHASTIC MODELS IN RELIABILITY	N 12			
UNIV OF CALIFORNIA	21/02/89			
ROSS	CHELDON			
MINIMUM RATE ENERGY SIGNAL PROCESSING	N 36			
RENSELAER POLYTECHNIC INSTITUTE	03/03/89			
PIMBLEY	JOSEPH			
INFINITE, CIVISIBLE, PROCESS. & THEIR NONLINEAR FUNCT.: A STUDY OF THEIR STRUCT., STATIST. & SAMPLE PATH PROPERT. & THEIR PRED. PROB.	R 69			
UNIV OF TENNESSEE	03/03/89			
RAJPLT	BALRAM			
RCBUST FITTING AND PROJECTION PURSUIT	N 12	A		\$70,000
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	09/03/85			01/07/89
HUBER	PETER			\$216,000
ANALYSIS OF VISUAL LOSS FROM RETINAL LESIONS	N 36			
UNIV OF TEXAS	13/03/89			
LONGOTHAM	MARCO			
LARGE DEVIATION THEORY APPLICATIONS TO PROBLEMS IN SIMULATION	N 36	A		\$25,000
UNIV OF WISCONSIN	13/03/89			01/09/89
BUCKLEW	JAMES			\$81,000
MULTIVARIATE MODEL BUILDING AND MODEL IDENTIFICATION	R 36			
UNIV OF WISCONSIN	15/03/89			
WAHBA	GRACE			
RESEARCH ON CONFIDENCE REGIONS FOR RESTRICTED LOCATION AND SCALE PARAMETERS	N 24			
UNIV OF PENNSYLVANIA	29/03/89			
MINTZ	MAX			
REAL-TIME ADAPTIVE FEEDBACK CONTROL OF MIXING IN A PLANE SHEAR	N 36	A		\$64,236
LAYER	03/01/89			01/04/89
UNIV OF CALIFORNIA	\$185,910			\$166,922
BIESCHN	J.			

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		PROPOSAL #	PROPOSAL #			
THE MANEUVERABILITY ANALYSIS OF A ROBOTIC SYSTEM WITH COMPOSITE FIBRIC/FLEXIBLE STRUCTURE SCIENTIFIC RESEARCH ASSOCIATES INC	CHEN ALEXANDER	N 06/01/89 \$64,396	CROWLEY 89-NM-174			
RECRUSIVE SYSTEM IDENTIFICATION OF LARGE STRUCTURES BOEING CO	IKEGAMI ROY	N 05/01/89 \$99,347	CROWLEY 89-NM-179	0		
ADVANCED GENERAL PURPOSE MODEL ALGORITHMIC CONTROLLER SCIENTIFIC SYSTEMS INC.	MAHMOOD SHAH	N 12/01/85 \$58,300	CROWLEY 89-NM-206			
AN IMPROVED TECHNIQUE FOR THE IDENTIFICATION OF NONLINEAR DYNAMICAL SYSTEMS SCIENTIFIC SYSTEMS INC.	MEHRA RAMAN	N 13/01/89 \$59,399	CROWLEY 89-NM-214			
A NEW TECHNIQUE FOR SIMULTANEOUS IDENTIFICATION AND CONTROL FOR LINEAR AND NONLINEAR SYSTEMS SCIENTIFIC SYSTEMS INC.	MAHRA RAMAN	N 13/01/89 \$59,886	CROWLEY 89-NM-217			
A ROBUST CONTROLS DESIGN TECHNIQUE FOR ACTIVE DAMPING OF LARGE SPACE STRUCTURES CGS SYSTEMS & TECH., INC	BUTLER MARLON	N 17/01/89 \$47,921	CROWLEY 89-NM-221			
PERTURBATION ANALYSIS OF STOCHASTIC DISCRETE EVENT DYNAMICAL SYSTEMS UNIV OF MASSACHUSETTS	GONG HEI-SO	N 17/01/89 \$140,218	CROWLEY 89-NM-228			
DESIGN OF ROBUST DIGITAL CONTROLLERS RICE UNIVERSITY	PEARSON J.	N 24/01/89 \$274,858	CROWLEY 89-NM-240	36		
APPLICATIONS OF ADAPTIVE FINITE ELEMENT METHODS TO PROBLEMS IN ESTIMATION AND CONTROL FOR PARTIAL DIFFERENTIAL EQUATIONS MICHIGAN STATE UNIVERSITY	LAMM PATRICIA	N 31/01/89 \$107,004	CROWLEY 89-NM-251	A	\$32,796 15/05/89 \$69,415	

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CONTROL OF LARGE-SCALE DECENTRALIZED SYSTEMS USING CONTROL THEORY AND ARTIFICIAL INTELLIGENCE NETROLOGIC, INC.	GREENWOOD CAN	N 06 08/02/89 \$54,591	CROWLEY 89-NM-276	
DEVELOP. OF DIFFERENT. GEOMETRIC APPROACH FOR THE OPTIMAL CONTROL OF REDUNDANT SYSTEMS, SUCH AS REDUNDANT ROBOTS & POINTING DEVICES SABBAGH ASSOCIATES, INC.	L.	N 06 08/02/89 \$50,000	CROWLEY 89-NM-279	
LARGE-SCALE AND PARALLEL ALGORITHMS FOR LINEAR ALGEBRA PROBLEMS IN CONTROL	BISWA	N 36 14/02/89 \$258,021	CROWLEY 89-NM-292	
NORTHERN ILLINOIS UNIVERSITY	CATT			
SIMPLE ADAPTIVE CONTROL(SAC) FOR NONLINEAR SYSTEMS LINEAR IN CONTROL TECHNOLOGY	IZHAK	N 06 15/02/89 \$49,816	CROWLEY 89-NM-315	
EAR-KANA				
A NUMERICAL AND ANALYTIC ANALYSIS OF NONLINEAR IMPLICIT DIFFERENTIAL EQUATIONS ARISING IN CONTROL AND CIRCUIT PROBLEMS NORTH CAROLINA STATE UNIVERSITY	CAMPBELL	R 24 03/03/89 \$106,003	CROWLEY 89-NM-335	
CAMPBELL	STEPHEN			
OPERATOR THEORETIC METHODS IN THE ROBUST CONTROL OF DISTRIBUTED AND NONLINEAR SYSTEMS UNIV OF MINNESOTA	FANNENBALK	N 36 03/03/89 \$255,249	CROWLEY 89-NM-336	
FANNENBALK	ALLEN			
MATHEMATICAL ISSUES IN THE THEORY OF NEURAL NETWORKS RUTGERS - THE STATE UNIVERSITY	HECTOR	N 36 03/03/89 \$299,359	CROWLEY 89-NM-337	
SUSSMANN				
PARALLEL COMPUTATION OF GENERALIZED LIKELIHOOD RATIOS FOR INSTRUMENT FAILURE DETECTION EOEING COMPUTER SERVICES INC	TYLSE	N 06 03/03/89 \$62,700	CROWLEY 89-NM-345	
TYLSE	J.			
PARALLEL IMPLEMENTATION OF AN ADAPTIVE GLIDANCE ALGORITHM BOEING COMPUTER SERVICES INC		N 06 03/03/89 \$62,700	CROWLEY 89-NM-345	
TYLSE	J.			

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL *	INITIATE START DATE TDT MTR
STUDIES ON CONVERGE, NONLINEAR DYNAMICS AND MODELING PROBLEMS IN LARGE-SPACE-STRUCTURES GEORGIA INSTITUTE OF TECH	ATLURI S.	N 36 03/03/89 \$295,960	CROWLEY	\$147,861 01/08/89 \$257,797
PRACTICAL METHODS FOR ROBUST MULTIVARIABLE CONTROL		R 24 13/03/89 \$257,797	A CROWLEY	
UNIV OF SOUTHERN CALIFORNIA	SAFONOV MICHAEL	N 36 15/03/89 \$234,060	CROWLEY	
THE DESIGN AND ANALYSIS OF ROBUST FEEDBACK SYSTEMS	P.	N 36 20/03/89 \$403,648	CROWLEY	
UNIV OF MICHIGAN	KHARGONEKAR ROLAND	N 36 20/03/89 \$117,939	CROWLEY	
NUMERICAL METHODS FOR PROBLEMS IN CONTROL OF DISTRIBUTED SYSTEMS AND IN DYNAMICAL SYSTEMS UNIV OF HOUSTON	GLOWINSKI DAVID	N 36 06/02/89 \$255,669	SHU-CHERNG	
THE EXTENSION OF IMPORTANT SINGLE-RATE DIGITAL CONTROL SYSTEM DESIGN METHODS TO THE MULTI-RATE CASE UNIV OF VIRGINIA	FANGER	N 24 20/03/89 \$117,939	CROWLEY	
THE INFERENCE OF PROBABILITY DISTRIBUTION VIA ENTROPY OPTIMIZATION WITH GEOMETRIC PROGRAMMING NORTH CAROLINA STATE UNIVERSITY		N 36 06/02/89 \$255,669	GLASSMAN	
PARALLEL ALGORITHMS FOR CONSTRAINED NONLINEAR GLOBAL OPTIMIZATION	FANG	N 16 10/03/89 \$25,056	GLASSMAN	
L.S. NAVAL ACADEMY	PHILLIPS ANDREW	N 16 10/03/89 \$25,056	GLASSMAN	
EXACT AND APPROXIMATE PARALLEL DECOMPOSITION ALGORITHMS FOR STOCHASTIC LINEAR PROGRAMS WASHINGTON STATE UNIVERSITY	ARIYAWANSA K.	N 24 15/03/89 \$128,316	GLASSMAN	
FUNCTION IMBEDDING TECHNIQUES: A NOVEL APPROACH TO GLOBAL OPTIMIZATION PROBLEMS	TSU-SHUAN CHANG	N 36 29/03/89 \$312,145	GLASSMAN	
UNIV OF CALIFORNIA		UNIV OF CALIFORNIA		

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AN INTEGRATED CONCEPT FOR SCHEDULING TRANSPORTATION NETWORKS	COMPLITER AIDEC PLAN & SCHEDULE INC.	NULTY	WILLIAM 09/01/89 \$50,000	N 06 A HOLLAND 89-NM-193	\$50,000 01/06/89 \$50,000
HIGHLY PARALLELIZABLE PRECONDITIONERS FOR CONJUGATE GRADIENT-TYPE	SCIENTIFIC COMPUTING ASSOCIATES INC	SHERMAN	ANDREW 13/01/89 \$55,806	N 06 HOLLAND 89-NM-208	
A SYSTEM FOR THE RUN-TIME SCHEDULING AND EXECUTION OF LOOPS ON DISTRIBUTED MEMORY MACHINES	SCIENTIFIC COMPUTING ASSOCIATES INC	SHERMAN	ANDREW 13/01/89 \$61,306	N 06 HOLLAND 89-NM-209	
BUILDING A LIKED PARALLEL PROGRAMMING ENVIRONMENT FOR UNIX LOCAL AREA NETWORKS	SCIENTIFIC COMPUTING ASSOCIATES INC	BERNET	CORNOLD 13/01/89 \$59,201	N 06 HOLLAND 89-NM-210	
ALGORITHM AND SYSTEM DEVELOPMENT OF A TRANSPUTER-BASED PARALLEL COMPUTING SYSTEM	ELECTRO MAGNETIC APPLICATIONS INC	PERALA	KODNEY 13/01/89 \$50,432	N 06 HOLLAND 89-NM-211	
PROBLEMS IN DISCRETE GEOMETRY: CONFIGURATIONS, POLYTOPES, TRANSVERSALS	CITY COLLEGE - CLNY	GOODMAN	JACOB 13/01/89 \$251,303	N 06 HOLLAND 89-NM-212	
CYCLES AND PATHS IN GRAPHS -- RESEARCH IN GRAPH THEORY	WEST VIRGINIA UNIVERSITY	ZHANG	CUN-QUAN 24/01/89 \$70,947	N 36. HOLLAND 89-NM-243	
ROBUST FUZZY LOGIC CONTROL OF MULTI-INPUT/OUTPUT PROCESSIS	GRAMBLING STATE UNIVERSITY	LEE	SHUEH-JI 24/01/89 \$192,432	N 06 HOLLAND 89-NM-247	
CALCULUS ARCHITECTURE FOR PARTIAL DIFFERENTIAL EQUATIONS	META SOFTWARE ENGINEERING	THAMES	JOSEPH 15/02/89 \$45,353	N 06 HOLLAND 89-NM-313	

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TITLE	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A SOFTWARE PACKAGES FOR SOLVING STRUCTUREC SPARSE LINEAR SYSTEMS	KUCK & ASSOCIATES, INC.	WELLS DANIEL	N 06 28/C2/89 \$47,358	HOLLAND MOLLAND 89-NP-328	
A SOFTWARE PACKAGE FOR SOLVING LARGE SYSTEMS CF NONLINEAR EQUATIONS	KUCK & ASSOCIATES, INC.	RAJIC	N 06 28/02/89 \$46,997	HOLLAND MOLLAND 89-NP-329	
OPTIMIZATION ALGORITHMS FOR NEW COMPUTER ARCHITECTURES WITH APPLICATION TO ROUTING AND SCHEDULING	SOUTHERN PETROLEUM UNIVERSITY	KENNINGTON JEFF	R 12 07/01/89 \$55,807	MILLER A 89-NM-140	\$55,064 01/05/89 \$55,807
EXACT FORMULAS FOR THE SCATTERING OF ELECTROMAGNETIC RADIATION FROM A CLASS CF HETEROGENEUS, DISPERSIVE, ANISOTROPIC SCATTERERS	N J CANASKIS INC	COHON C.	N 06 03/01/89 \$52,200	NACHMAN NACHMAN 89-NM-168	
MATHEMATICAL MODELS CF COMPLEX LASER BEAM	JOSEPH TECHNOLOGY CORPORATION	OLIKER V.	N 06 03/01/89 \$56,445	NACHMAN NACHMAN 89-NM-169	
DESKTOP, HIGH SPACE-BANDWIDTH PRODUCT, Holographic FILM PRINTER TO FABRICATE COMPUTER GENERATED HOLOGRAMS	SILHOUETTE TECHNOLOGY, INC	CWYER GENE	N 06 04/01/89 \$50,000	NACHMAN NACHMAN 89-NM-177	
ANALYSIS COMPUTATION AND APPLICATION CF VARIATIONAL PRINCIPLES	UNIV CF MONTANA	ACHMUTY GILES	N 36 05/01/89 \$186,132	NACHMAN NACHMAN 89-NP-178	
THE ASYMPTOTIC THEORY OF THE REFLECTION AND TRANSMISSION OF A PULSE ELECTROMAGNETIC BEAM FIELD	UNIV OF VERMONT	CUGHSTUN KURT	N 12 09/01/89 \$43,081	NACHMAN A NACHMAN 89-NP-191	\$43,081 01/05/89 \$43,081
EXACT FORMULAS FOR THE SCATTER. OF ELECTROMAG. RADIAT. FROM A CLASS OF HETEROG., DISPER., ANISOTROP. CYLINDERS & THEIR THERMAL	N J CANASKIS INC	COHON C.	N 06 09/01/89 \$52,200	NACHMAN NACHMAN 89-NM-195	

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SCATTERING OF ELECTROMAGNETIC RADIATION FROM CLUSTERS OF ANISOTROPIC SPHERES AND THEIR THERMAL RESPONSE TO THE RADIATION	N J CAMASKOS INC	DAVID COHOON	N 06 09/01/89 \$52,200	NACHMAN D 89-NM-196	
PARABOLIC AND ELLIPTIC SYSTEMS ARISING FROM REACTION TRANSPORT PROBLEMS WITH SEPARABLE LYAPUNOV-TYPE STRUCTURE	TEXAS A AND M RESEARCH FOUNDATION	J. MORGAN	N 24 10/01/89 \$36,673	NACHMAN D 89-NM-198	
PROBLEMS RELATED TO CONSERVATION LAWS-PHASE TRANSITION AND VISCOELASTICITY	WEST VIRGINIA UNIVERSITY	HATTORI HARUMI	N 36 10/01/89 \$136,239	NACHMAN D 89-NM-200	
ROBOTICS AND THE MECHANICS OF FRICTION	UNIV OF MARYLAND	ALEXANDER JAMES	N 36 10/01/89 \$342,510	NACHMAN D 89-NM-201	
FREE BOUNDARY PROBLEMS OF MULTI-DIMENSIONAL HYPERBOLIC CONSERVATION LAWS	WEST VIRGINIA UNIVERSITY	LI DENING	N 36 10/01/89 \$104,963	NACHMAN D 89-NM-202	
INTERDISCIPLINARY CONFERENCE ON CONTINUUM MECHANICS	OHIO STATE UNIV RESEARCH FOUNDATION	FRIECHAN HARVEY	N 06 10/01/89 \$20,000	NACHMAN D 89-NM-203	
ANALYTICAL APPROACHES TO SINGULAR PERTURBATION PROBLEMS CF SIGNIFICANCE TO APPLICATIONS	RENSSELAER POLYTECHNIC INSTITUTE	O'MALLEY, JR. ROBERT	N 36 10/01/89 \$240,103	NACHMAN D 89-NM-204	
EVALUATION OF A NEW ITERATIVE EQUATION SOLVER	APPLIED RESEARCH ASSOCIATES INC	DAVISTER MICHAEL	N 06 13/01/89 \$45,473	NACHMAN D 89-NM-216	
VLSI/DEIC ARCHITECTURE FOR NON-LINEAR EQUATION SOLVER IN REAL-TIME APPLICATIONS	DEVICE RESEARCH INSTITUTE	WANG CHENG	N 12 17/01/89 \$1,617,500	NACHMAN D 89-NM-227	

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THE CENTER FOR NONLINEAR PHENOMENA AND MAGNETIC MATERIALS	HOWARD UNIVERSITY	GILL	N 36 TEPPER	A	NACHMAN	89-NM-229	\$74,867 01/06/89 \$325,123	
DEVELOPMENT OF CAREER-LONG MATHEMATICAL SKILLS FOR THE IMPLEMENTATION OF ADVANCED DEFENSED TECHNOLOGY	KONSAL RESEARCH ASSOCIATES	AGGARWAL	N 06 SHASHI	19/01/89 \$395,000	NACHMAN	89-NP-232		
SUPERPARAMAGNETIC NONLINEAR ANALYSIS PROGRAM (SNAF)	SCIENTIFIC SYSTEMS INC.	MEHRA	N 06 RAMAN	19/01/89 \$59,806	NACHMAN	89-NM-233		
COMBINED STRUCTURES AND CONTROLS MODELING USING ADMITTANCE METHODS	FHJTCN RESEARCH ASSOCIATES INC.	CHUN	N 06 HOU	23/01/89 \$49,999	NACHMAN	89-NP-234		
TRANSITIONS AND DEFECTS IN ORDERED MATERIALS: NONLINEAR THEORY, COMPUTATION AND EXPERIMENT	UNIV OF MINNESOTA	ERIKSEN	JERALD	N 04 \$70,000	NACHMAN	89-NM-236		
MODELLING AND PREDICTION OF CLEAR AIR TURBULENCE	WORCESTER POLYTECHNIC INSTITUTE	HUMI	MAYER	24/01/89 \$91,105	NACHMAN	89-NM-246		
APPLICATION OF VARIABLE STRUCTURE SYSTEMS CONTROLLERS	NORTH CAROLINA A&T STATE UNIVERSITY	KUMAR	ASHOK	N 24 24/01/89 \$91,105	NACHMAN	89-NP-251		
EFFICIENT VARIABLE LENGTH CODES FOR DETECTING/CORRECTING ERRORS AND CODES FOR CORRECTING NON-LINEAR ERRORS	XAVIER UNIVERSITY	SHARMA, F.H.D	PHU DEV	N 12 31/01/89 \$73,572	NACHMAN	89-NP-252		
PRODUCTION OF ILLUMINATED BY ALTERNATE HEATING AND COOLING	UNIV OF ARKANSAS/PINE BLUFF	BHATTACHARYYA	I	N 36 31/01/89 \$133,505	NACHMAN	89-NP-253		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A RESEARCH PROPOSAL ON RELIABLE DISTRIBUTED COMPUTING AND PARALLEL ALGORITHMS NORFOLK STATE COLLEGE	KUNG	N 24 31/01/85 \$446,555	D NACHMAN 89-NM-254	
A COMPUTER ASSISTANT FOR QUERY CONSTRUCTION FOR INFORMATION RETRIEVAL BY CASUAL USERS BETHUNE-COKEMAN COLLEGE	COPELAND, PH.D	N 36 31/01/89 \$176,366	D NACHMAN 89-NP-255	
CONSTRAINT ANALYSIS: A TOOL FOR INTEGRITY CONSTRAINT ENFORCEMENT AND SIMPLIFICATION JACKSON STATE UNIVERSITY	LIM	N 12 31/01/89 \$6,282,204	D NACHMAN 89-NM-256	
WEIGHTED RANKING ANALYSIS NORTH CAROLINA CENTRAL UNIVERSITY	SALAMA	N 36 31/01/89 \$345,652	D NACHMAN 89-NM-257	
DEVELOPMENT OF A RESEARCH PROGRAM FOR IMAGE PROCESSING APPLICATIONS JACKSON STATE UNIVERSITY	GUDIVADE	N 12 31/01/89 \$61,978	D NACHMAN 89-NM-258	
ROBUST FUZZY LOGIC CONTROL OF MULTI-INPUT/MULTI-OUTPUT PROCESSES GRAMBLING STATE UNIVERSITY	LEE	N 12 31/01/89 \$183,432	D NACHMAN 89-NM-259	
AN INTELLIGENT TUTOR FOR THE IBM SYSTEM/360: BIGBLUE JACKSON STATE UNIVERSITY	RANA	N 12 31/01/89 \$36,399	D NACHMAN 89-NM-260	
WAVE PROPAGATION AND THE DIRECT AND INVERSE SCATTERING THEORY OF ELECTROMAGNETIC WAVES IN HIGHLY DISPERSIVE MEDIA UNIV OF MISSOURI	DEFACIO	N 12 02/02/89 \$20,281	A NACHMAN 89-NM-268	\$20,281 01/05/89 \$20,281
NONLINEAR WAVE PROPAGATION IN A RANDOM MEDIUM UNIV OF CENTRAL FLORIDA	SHIVAMOGGI	N 03 06/02/89 \$25,193	N NACHMAN 89-NM-271	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOY AMT
PARALLEL PROCESSING FOR NONLINEAR SYSTEM SIMULATION USING A RELAXATION ALGORITHM AND CCM REPRESENTATION SABBAGH ASSOCIATES, INC.	SABBAGH L.	N 06 08/02/89 \$50,000	NACHMAN NACHMAN 99-NM-272	
ADAPTIVE NONLINEAR INVERSION ALGORITHMS SABBAGH ASSOCIATES, INC.	SABBAGH L.	N 06 08/02/89 \$49,973	NACHMAN NACHMAN 89-NP-273	
HEURISTIC AND MATHEMATICAL DESIGN OPTIMIZATION APTEK INC.	UDY JERRY	N 06 08/02/89 \$49,836	NACHMAN NACHMAN 89-NP-275	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE ON DEVELOP. AN EXACT CHARACTERIZATION FOR THE OUTPUT BEAM OF A SEMICONDUCTOR LASER TALANDIC RESEARCH CORP.	LANDESMAN BARBARA	N 06 08/02/89 \$63,259	NACHMAN NACHMAN 89-NM-279	
C-SPLINES, A NEW TOOL FOR GEOMETRIC MODELING TECHNOLOGY INTERNATIONAL, INC	LIANG ENJU	N 06 10/02/89 \$49,719	NACHMAN NACHMAN 89-NP-282	
DEVELOPMENT OF AN INTEGRATED ADAPTIVE FOUGHT CONTROL SYSTEM FOR HYPERVELOCITY VEHICLES TECHNOLOGY INTERNATIONAL, INC	LIANG ENJU	N 06 13/02/89 \$49,872	NACHMAN NACHMAN 89-NM-285	
A SELF ADAPTIVE KNOWLEDGE DRIVEN COMPUTATIONAL STRATEGY FOR NONLINEAR STRUCTURAL ANALYSIS JCROAN, APOSTAL, RITTER ASSOCIATES, INC	APOSTAL MICHAEL	N 06 13/02/89 \$49,835	NACHMAN NACHMAN 89-NM-286	
PERFORMANCE OF MULTIGRID SOLVERS ON ADVANCED PARALLEL ARCHITECTURE COMPLSEC, INC	GOLDSMITH DEBORAH	N 06 13/02/89 \$49,688	NACHMAN NACHMAN 89-NP-289	
ANALYTICAL AND NUMERICAL STUDIES OF ELECTROMAGNETIC PROPAGATION IN NONLINEAR MEDIA PRINCETON PHYSICAL SCIENCES, INC.	POTASEK MARY	N 06 14/02/89 \$50,000	NACHMAN NACHMAN 89-NP-294	

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TITLE (CONT.)		RECEIVED AMOUNT	PROGRAM MANAGER PROPOSAL #	START DATE TOT ANT
KNOWLEDGE-BASED MODELING OF MECHANICAL SYSTEMS AND ROBOTIC DEVICES	MARK THOMAS	N 06 15/02/89 \$54,274	NACHMAN 89-NP-302	
AUTOMATION SOFTWARE INNOVATION				
DEVELOP COMPUTER SOFTWARE TO HELP APPROXIMATE SOLUTIONS TO INTRACTABLE DIFFERENTIAL EQUATIONS	PHILLIP GREENSPAN	N 06 15/02/89 \$49,486	NACHMAN 89-NP-304	
FIECWISE LINEAR SYSTEMS				
INTEGRATED FRAMEWORK FOR SOLVING PARTIAL DIFFERENTIAL EQUATIONS USING GEOMETRIC COMPUTING	LEENA-MAJJA HEISSAHL	N 06 15/02/89 \$50,000	NACHMAN 89-NM-305	
XOX CORP.				
CONCURRENT EXECUTION OF APL PROGRAMS	VIN SHIM	N 06 15/02/89 \$49,741	NACHMAN 89-NM-306	
EPIC SYSTEMS GROUP				
MULTI-STAGE NUCLEAR OFFENSE-DEFENSE ALLOCATION MODEL	JERRINE BRACKEN	N 06 15/02/89 \$50,000	NACHMAN 89-NM-307	
SRS TECHNOLOGIES, INC.				
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE	JOHN CEEAN	N 06 15/02/89 \$45,447	NACHMAN 89-NP-314	
DIGITAL FANTASTIES LIMITED				
INTEGRATION OF ODES: AN APPLICATION OF A NETWORK COMPUTATION SERVER	ROBERT GROSSMAN	N 06 15/02/89 \$49,688	NACHMAN 89-NM-315	
CRCHARD SCIENTIFIC RESEARCH				
THE LIMIT OF HIGH REYNOLDS NUMBER FOR SHEAR LAYERS	GREGORY BAKER	N 36 21/02/89 \$396,375	NACHMAN 89-NP-320	
OHIO STATE UNIV RESEARCH FOUNDATION				
DYNAMICS OF COTTONNINGS AND SHOCK INDUCED PHASE CHANGES	VICTOR ROYTEURD	N 36 21/02/89 \$176,308	NACHMAN 89-NP-322	
FENSSELAER POLYTECHNIC INSTITUTE				

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TRANSITIONS AND EFFECTS IN ORDERED MATERIALS: NONLINEAR THEORY, COMPUTATION, AND EXPERIMENTS UNIV OF MINNESOTA	ERICKSEN JERALD S.	N 12 22/02/89 \$65,000	A NACHMAN 89-NM-325	
ULTIMATE UNSTRUCTURED GRID METHOD (UUGM) CODE DEVELOPMENT SCIENCE APPLICATIONS INTERNATIONAL CORP.	EIDELMAN	N 30 27/02/99 \$803,072	A NACHMAN 89-NM-326	\$227,700 01/07/89 \$877,072
1989 SUMMER SEMINAR ON THE MATHEMATICS OF RANDOM MEDIA AMERICAN MATHEMATICAL SOCIETY	JAMES MAXWELL	N 12 27/02/89 \$7,500	A NACHMAN 99-NM-327	\$7,500 01/06/89 \$7,500
FINGER PROJECT DEVTECH	HOMMERSON ERIK	N 18 03/03/89 \$1,987,984	A NACHMAN 89-NM-339	\$785,503 01/06/89 \$1,987,984
NETWORKS OF MULTI LIPSTIC CYCLE OSCILLATORS UNIV OF WISCONSIN, PLATTVILLE	SAET YULY	N 36 06/03/89 \$98,054	A NACHMAN 89-NM-349	
DEVELOPMENT OF A FUNCTIONAL EXPANSION OF NONLINEAR DISTRIBUTED-PARAMETER SYSTEMS (CUR) WAYNE STATE UNIVERSITY	IBRAHIM RAOUF	N 36 15/C3/89 \$188,010	A NACHMAN 89-NM-367	
THE MODELING OF MICRBURST AND MACROBURST PHENOMENA LEHIGH UNIVERSITY	MACPHERSON ALISTAIR HU	N 24 20/03/89 \$175,656	A NACHMAN 89-NM-368	
THEORY OF CHAOS AND ITS APPLICATION TO PHASE TRANSITIONS UNIV OF MCGILL	PAMBI	N 36 20/03/89 \$384,812	A NACHMAN 99-NM-369	
CISCRETE APPLIED MATHEMATICS RUTGERS - THE STATE UNIVERSITY	PETER HAMMER	N 36 20/03/89 \$2,127,325	A NACHMAN 89-NM-370	

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ESTIMATION AND CONTROL OF STOCHASTIC DISTRIBUTED PARAMETER SYSTEMS UNIV OF TEXAS LACDE	N 36 28/03/89 \$154,086	NACHMAN 89-NP-377	
PARALLEL PROCESSING FOR SCIENTIFIC AND ENGINEERING COMPUTATIONS TUSKEgee INSTITUTE HSU	N 24 28/03/89 \$343,307	NACHMAN 89-NP-378	
MATHEMATICAL QUESTIONS CONCERNING OSCILLATORY AND EXCITABLE MEDIA BOSTON UNIVERSITY KOPPEL	N 36 28/03/89 \$428,672	NACHMAN 89-NP-379	
SHOCKWAVE CONCITIONS AND PERTURBATION THEORY FOR DYNAMICAL SYSTEMS ICWA STATE UNIVERSITY DEPARTMENT OF MATH PETERS	N 36 28/03/89 \$348,771	NACHMAN 89-NP-380	
A NEW APPROACH TO SIMULATION OF TURBULENT FLOWS UNIV OF WISCONSIN AMANCI	N 36 28/03/89	NACHMAN	
CENTER FOR THE STUDY OF DISTRIBUTED PARAMETER SYSTEMS AND NONLINEAR WAVES UNIV OF MARYLAND BALTIMORE COUNTY SEIDMAN	N 36 28/03/89 \$200,939	NACHMAN 89-NP-391	
COMPUTATIONAL ALGORITHMS FOR IDENTIFICATION OF DISTRIBUTED PARAMETER SYSTEMS UNIV OF ARKANSAS	N 36 28/03/89 \$651,385	NACHMAN 89-NP-392	
SOME NONLINEAR PARABOLIC AND HYPERBOLIC PROBLEMS OF COMBUSTION AND ELECTROMAGNETIC THEORY NORTHERN ILLINOIS UNIVERSITY BLOOM	N 36 28/03/89 \$213,635	NACHMAN 89-NP-393	
DEVELOPMENT OF AN INTERACTIVE DECISION SUPPORT SYSTEM FOR DESIGN OF INSPECTION/TEST STRATEGIES MISSISSIPPI STATE UNIVERSITY SMYER	N 36 28/03/89 \$165,932	NACHMAN 89-NP-394	
WILLIAM	N 12 28/03/89 \$110,313	NACHMAN 89-NP-395	

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NONLINEAR WAVE PHENOMENA RELATED TO INTERACTIONS IN THE IONOSPHERE	CLARKSON UNIVERSITY	FOKAS	N 36 28/03/83 \$791,926	NACHMAN 89-NV-386	
MODELING, ESTIMATION, AND CONTROL OF DISTRIBUTED PARAMETER SYSTEMS	UNIV OF SOUTHERN CALIFORNIA	PANKS	N 36 28/03/89 \$1,581,394	NACHMAN 89-NV-387	
A MATHEMATICAL FORMULATION OF UNCERTAIN INFORMATION	PALM STATE UNIVERSITY	TZENG	N 36 28/03/89 \$165,813	NACHMAN 89-NM-388	
AF UNIVERSITY RESEARCH INITIATIVE (URI) FY 1990 PROGRAM: NONLINEAR OPTICS AND TURBULENCE (BAA NUMBER 89-2)	UNIV CF ARIZONA	NEWELL	N 36 28/03/89 \$1,667,729	NACHMAN 89-NM-389	
PARALLEL PROGRAMMING USING AUTOMATIC PARALLELIZATION AND STOCHASTIC METHODS FOR AUTOMATED LOAD BALANCING	GEORGE MASON UNIVERSITY	WEGLER	N 36 28/03/89 \$541,298	NACHMAN 89-NM-390	
PARALLEL PROCESSING IN IMAGE UNDERSTANDING AND EXPERT REASONING	UNIV CF SOUTH FLORIDA	MALL	N 24 29/03/89 \$196,590	NACHMAN 89-NV-391	
MATHEMATICAL ANALYSIS OF A QUASI-BALANCED DYNAMICAL SYSTEM FOR TROPICAL WEATHER AND CLIMATE	COLORADO STATE UNIVERSITY	STEVENS	N 36 29/03/89 \$395,359	NACHMAN 89-NM-392	
NONLINEAR DYNAMICS UNDERLYING ATMOSPHERIC PREDICTABILITY	FLORIDA STATE UNIVERSITY	PFEFFER	N 36 29/03/89 \$750,000	NACHMAN 89-NV-393	
ADAPTIVE CONTROL SYSTEMS FOR LARGE ROTATIONAL MANEUVER OF ELASTIC SPACECRAFT	UNIV OF NEVADA	SINGH	N 24 29/03/89 \$316,717	NACHMAN 89-NV-394	

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LINEAR & NONLINEAR CONTROL PROBLEMS IN CONTINUUM MECHANICS: ANALYSIS & COMPUTATIONS		LNIV OF CINCINNATI	SROJAN	N 36 29/03/89 \$198,779	NACHMAN 89-NM-395	
OPERATIONAL METHODS IN CONTROL THEORY		MICHIGAN STATE UNIVERSITY	MACCLUER CHARLES	N 36 29/03/89 \$207,497	NACHMAN 89-NM-408	
THE SCATTERING OF ELECTROMAGNETIC PULSES BY DISPERSSIVE MEDIA: DIRECT AND INVERSE THEORY AND COMPUTATION	CORONES	IOWA STATE UNIV OF SCIENCE AND TECH	JAMES	N 38 30/03/89 \$680,000	NACHMAN 89-NM-409	
RELAXATION METHODS FOR COMPRESSIBLE FLOWS		REDDY	K	N 36 30/03/89 \$310,000	NACHMAN 89-NM-410	
ALGORITHMIC COMPUTATION AND DESIGN		DUKE UNIVERSITY	HAFF PETER	N 36 30/03/89 \$264,429	NACHMAN 69-NM-411	
ANALYSIS & MODELING OF ULTRASHORT LASER PULSE PROPAGATION & MODULATIONS IN NONLINEAR OPTICAL MEDIA	F0	CITY COLLEGE - CUNY	FING-PEI	N 36 30/03/89 \$236,276	NACHMAN 89-NP-412	
STABILIZATION AND CONTROL OF DISTRIBUTED PARAMETER SYSTEMS		WASHINGTON UNIVERSITY	TZYM-JONG TARN	N 36 30/03/89 \$562,872	NACHMAN 89-NM-413	
ROBUST CONTROL DESIGN AND ANALYSIS FOR DISTRIBUTED PARAMETER SYSTEMS		CLEMSON UNIVERSITY	FENNELL ROBERT	N 38 30/03/89 \$749,327	NACHMAN 89-NM-414	
PATH PLANNING AND VISIBILITY PROBLEMS IN AIRCRAFT MISSION PLANNING		LNIV OF TEXAS	NTAFCS SIMEON	N 35 30/03/89 \$245,340	NACHMAN 89-TM-415	

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TITLE (CCW1.)				
INSTITUTION				
ANALYSIS OF SINGULARITY FORMATION IN HIGH REYNOLDS NUMBER VISCOUS FLOWS	ROTHMAYER ALRIC	N 36 30/03/89 \$466,405	NACHMAN 99-NP-416	
IOWA STATE UNIVERSITY DEPARTMENT OF MATH				
COMPUTATION OF UNSTEADY INTERACTIVE BOUNDARY LAYER, SUPERSONIC WAKE FLOWS & THEIR STABILITY AT MODERATE TO HIGH MACY NUMBERS	ROBERT WAURI	N 36 30/03/89 \$417,684	NACHMAN 89-NP-417	
CITY COLLEGE - CUNY				
NONLINEAR RAYTEIGH-TAYLOR INSTABILITIES	ROONEY DOUGLAS	N 36 30/03/89 \$415,440	NACHMAN 99-NP-418	
UNIV OF NEBRASKA				
A MATHEMATICAL ANALYSIS OF THE NONLINEAR DYNAMICS OF NEURAL NETWORKS	YOH-MAN FAD	N 36 30/03/89 \$712,167	NACHMAN 99-NP-419	
CASE WESTERN RESERVE UNIVERSITY				
STABILITY ANALYSIS OF FAULT-TOLERANT REAL-TIME MULTIFPROCESSOR SYSTEMS	JITENDER DEOGUN	N 36 30/03/89 \$239,877	NACHMAN 89-NP-420	
UNIV OF NEBRASKA				
SYSTEMATICS AND QUANTITATIVE DESIGN OF ADAPTIVE CONTROLLERS	KONSTANTINOS TSAKALIS	N 36 30/03/89 \$3000,723	NACHMAN 89-NP-421	
ARIZONA STATE UNIVERSITY				
SPATIAL-TEMPORAL COMPLEXITY AND LARGE SCALE STRUCTURE IN PROBLEMS OF CONTINUUM MECHANICS	NICOLAENKO BASIL	N 36 30/03/89 \$740,177	NACHMAN 89-NP-422	
ARIZONA STATE UNIVERSITY				
APPLICATIONS OF ADAPTIVE FINITE ELEMENT METHODS TO PROBLEMS IN ESTIMATION AND CONTROL FOR PARTIAL DIFFERENTIAL EQUATIONS	PATRICIA LAMP	N 36 30/03/89 \$105,141	NACHMAN 89-NP-423	
MICHIGAN STATE UNIVERSITY				
NEW APPROACHES TO PARALLEL IMAGE PROCESSING IN 2-D MESHES	RICHARD HALL	N 36 30/03/89 \$561,128	NACHMAN 89-NP-424	
UNIV OF PITTSBURGH				

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STUDY OF THE ANALYTIC THEORY OF CONTINUED FRACTIONS AND TIME EVOLUTION IN MANY-BODY SYSTEMS UNIV OF GEORGIA	LEE P.	N 36 30/03/89 \$263,198	NACHMAN 89-NM-425	
LARGE-SCALE AND PARALLEL ALGORITHMS FOR LINEAR ALGEBRA PROBLEMS IN CONTRACT NORTHERN ILLINOIS UNIVERSITY	BISWA	N 36 30/03/89 \$168,507	NACHMAN 89-NM-426	
ESTIMATING THE PEAK FREQUENCY OF A MULTI-DIMENSIONAL AUTOREGRESSIVE PROCESS OF UNKNOWN ORDER RICE UNIVERSITY	CATTA	N 36 30/03/89 \$243,430	NACHMAN 89-NM-427	
MATHEMATICAL STUDIES OF HYPERSONIC FLOW, THERMAL AND STRUCTURAL INTERACTION PHENOMENA UNIV OF VIRGINIA	ENSOR	N 36 30/03/89 \$720,392	NACHMAN 89-NP-428	
VECTORIZED PERTURBED FUNCTIONAL ITERATIVE SCHEME FOR LARGE-SCALE NONLINEAR COMPUTATIONS EASTERN ILLINOIS UNIVERSITY	KOCD	N 12 30/03/89 \$97,703	NACHMAN 89-NM-429	
ARTIFICIAL INTELLIGENCE METHODOLOGIES IN FLIGHT RELATED DIFFERENTIAL GAME, CONTROL AND OPTIMIZATION PROBLEMS WASHINGTON UNIVERSITY	DEY	N 36 30/03/89 \$748,595	NACHMAN 89-NP-430	
STOCHASTIC WEAR PROCESSES: MODELING, ESTIMATION, AND CONTROL UNIV OF KENTUCKY RESEARCH FOUNDATION	RISHEL	N 36 30/03/89 \$617,698	NACHMAN 89-NP-431	
THE FUNDAMENTAL MAGNETIC ANISOTROPY MICHIGAN TECHNOLOGICAL UNIVERSITY	ERVIN RAYMOND	N 36 30/03/89 \$320,329	NACHMAN 89-NP-432	
MAGNETOSTATIC DEFORMATION: THE MAGNETOSTATIC BENDING OF PLATES MICHIGAN TECHNOLOGICAL UNIVERSITY	VIEGELAHN GARY	N 36 30/03/89 \$265,546	NACHMAN 89-NM-433	

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TITLE (CONT.)				
INSTITUTION				
MATHEMATICAL MODELING OF DISCONTINUOUS PHENOMENA BY GRADIENT SPACE METHODS UNIV OF TEXAS	KENNEN STEPHEN	N 24 30/03/89 \$182,449	NACHMAN 89-NH-434	
APPROXIMATIONS AND INEQUALITIES IN RADAR DETECTION AND RELIABILITY THEORY UNIV OF CONNECTICUT	GLAZ JOSEPH	N 24 30/03/89 \$104,622	NACHMAN 89-NH-435	
STATISTICAL INFERENCE: RELIABILITY, NONLINEAR PRECISION, AND SIGNAL PROCESSING UNIV OF CALIFORNIA	ROUSSAS GEORGE	N 36 31/03/89 \$496,395	NACHMAN 89-NP-436	
EVALUATION OF TRANSPORT PROPERTIES OF DIATOMIC GASES USING THE INFINITE ORDER SUDDEN APPROXIMATION UNIV OF ALABAMA	YIGHIANI BECKY	N 36 31/03/89 \$178,177	NACHMAN 89-NP-437	
MICROPHYSICAL, ELECTROMAGNETIC AND OBSERVATIONAL MODELLING OF CONVECTIVE STORMS UNIV OF ALABAMA	CHANCRASEKAR V	N 36 31/03/89 \$187,105	NACHMAN 89-NH-438	
INSTABILITY OF CYLINDRICAL SHELLS SUBJECTED TO NONUNIFORM EXTERNAL PRESSURE UNIV OF NORTH DAKOTA	JERATH SUKHWARSH	N 36 31/03/89 \$182,802	NACHMAN 89-NH-439	
THREE-DIMENSIONAL MULTISTATIC ECHO IMAGING IN REMOTE SENSING AND NON-DESTRUCTIVE TESTING STATE UNIVERSITY OF NEW YORK	SOQUEKHM MEHRDAD	N 36 31/03/89 \$270,311	NACHMAN 89-NP-440	
THEORY OF RANDOM MATRICES IN OPTICAL TRANSMISSION AND HIGH TEMPERATURE MATERIALS CASE WESTERN RESERVE UNIVERSITY	KOJCZINSKI MCJEDOR	N 36 31/03/89 \$301,974	NACHMAN 89-NP-441	
MATHEMATICAL ANALYSIS OF THREE FREE-ELECTRON-LASER ISSUES JACKSON STATE UNIVERSITY	JOHNSTON SHAYNE	N 36 31/03/89 \$363,026	NACHMAN 89-NP-442	

TITLE	TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
THEORY AND APPLICATIONS OF GENERALIZED ADDITIVE MODELS		GEORGE WASHINGTON UNIVERSITY	THALL PETER	N 36 21/03/89 \$340,599	NACHMAN	89-NM-443
VALIDATING SOFTWARE FOR DISTRIBUTED SYSTEMS		UNIV OF TEXAS	VENKATESAN SUBBARAYAN	N 36 21/03/89 \$53,184	NACHMAN	89-NP-444
ADAPTIVE CONTROL OF DISTRIBUTED COMPUTING SYSTEMS FOR PERFORMANCE OPTIMIZATION		UNIV OF TEXAS	DATTATREYA G	N 12 31/03/89 \$52,393	NACHMAN	89-NM-445
USUALITY ALGEBRA AND ITS APPLICATION TO EXPERT SYSTEMS FOR SPACE OBJECT SURVEILLANCE AND IDENTIFICATION		UNIV OF MIAMI	LEE EDWARD	N 36 31/03/89 \$292,693	NACHMAN	89-NP-446
AUTOMATIC MODULATION RECOGNITION OF DIGITALLY MODULATED SIGNALS		SOUTHERN METHODIST UNIVERSITY	SOLIMAN SAMIR	N 36 31/03/89 \$171,946	NACHMAN	89-NM-447
MODELS OF OBSTRUCTION LINES WITH FLEXIBLE WORKSTATIONS		UNIV OF MISSOURI	VENTURA JOSE	N 24 31/C3/89 \$353,740	NACHMAN	89-NP-448
PARALLEL COMPUTATION OF STRUCTURAL OPTIMIZATION		UNIV OF MISSOURI	EL-SAYED MOHAMED	N 36 31/03/89 \$188,389	NACHMAN	89-NP-449
FEEDBACK CONTROL OF UNSTEADY FLOW SEPARATION OVER LIFTING SURFACES		ILLINOIS INSTITUTE OF TECHNOLOGY	C SOLZZA ANTHONY	N 36 31/C3/89 \$468,000	NACHMAN	89-NM-450
CHAOS THEORY AS A TOOL IN NUMERICAL ANALYSIS		UNIV OF NOTRE DAME	E KINNAHAKK INGENMAR	N 36 31/03/89 \$288,427	NACHMAN	89-NP-451

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NETWORK RELIABILITY				N 36 31/03/89 \$501,971	NACHMAN 89-NM-452	
STEVENS INSTITUTE OF TECHNOLOGY	SATYANARAYANA	A				
CONTROL OF NONLINEAR DISTRIBUTED PARAMETER SYSTEMS						
CITY COLLEGE - CUNY	TSILIGIANNIS	CHRISTOS		N 36 31/03/89 \$275,925	NACHMAN 89-NM-453	
RESEARCH INITIATIVE IN THE MATHEMATICAL ASPECTS OF SCIENTIFIC COMPUTATION	CUPORT	TODD		N 36 31/03/89 \$628,324	NACHMAN 89-NM-454	
COMPLEXITY ANALYSIS AND ALGORITHMS FOR MULTICRITERIA SCHEDULING PROBLEMS FOR SINGLE AND PARALLEL PROCESSORS	CHEN	CHUEN-LUNG		N 24 31/03/89 \$111,881	NACHMAN 89-NM-455	
DISCRETE APPLIED MATHEMATICS						
RUTGERS - THE STATE UNIVERSITY	ROBERTS	FRED		N 36 31/03/89 \$749,996	NACHMAN 89-NM-456	
ON THE NON-DESTRUCTIVE EVALUATION OF DAMAGE-AN INVERSE APPROACH	KOURIS	CEMITRIS		N 35 31/03/89 \$328,271	NACHMAN 89-NM-457	
ARIZONA STATE UNIVERSITY	AOOMIAN	E.				
AN ANALYTICAL AND COMPUTATIONAL APPROACH TO COMPLEX CONTROL SYSTEMS						
GENERAL ANALYTICS CORPORATION				N 06 03/01/89 \$50,000	NELSON 89-NM-167	
DEVELOPMENT OF ADVANCED FINITE ELEMENTS FOR STRUCTURAL ANALYSIS						
CSA ENGINEERING, INC.	GIBSON	WARREN		N 06 04/01/89 \$50,000	NELSON 89-NM-176	
OBJECTIVE COMPUTATIONAL PROCEDURES FOR CONTINUUM CALCULATIONS						
WEIDLINGER ASSOCIATES	SANDLER	IVAN		N 06 06/01/89 \$45,238	NELSON 89-NM-196	

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A NEW PARALLEL ALGORITHM FOR COMPUTATIONAL FLUID DYNAMICS	CAMPBELL FHIL	N 06 06/01/89 \$52,033	NELSON 89-NM-198	
LATTICE GAS AUTOMATA FOR MODELING LARGE ACNLINEAR SYSTEMS	MASSLACHER BROSIL	N 06 09/01/89 \$49,926	NELSON 89-NM-192	
INNOVATIVE STORAGE TECHNIQUES FOR FINITE ELEMENT METHODS	JAY	N 06 09/01/89 \$49,929	NELSON 89-NM-194	
INTERACTIVE GRID GENERATION ON SMALL COMPUTERS	BUCKMAN EISEMAN	N 06 13/01/89 \$75,000	NELSON 89-NM-212	\$52,850 01/06/89 \$52,850
CYANAMIC MAPPING OF ALGORITHMS TO MULTIPROCESSORS DESIGN, ANALYSIS & SOFTWARE ENG	SALAMA POKTAR	N 06 17/01/89 \$69,562	NELSON 89-NM-224	
PARALLEL EXTRACTION OF EIGENPAIRS OF SYMMETRIC AND NONSYMMETRIC MATRICES DESIGN, ANALYSIS & SOFTWARE ENG	SALAMA MOKTAR	N 06 17/01/89 \$49,957	NELSON 89-NM-225	
ACCELERATION OF ALGORITHMS FOR FLUID-STRUCTURE-THERMAL INTERACTIONS	CULIKRAVICH GEORGE	N 36 02/02/89 \$208,409	NELSON 89-NM-265	
A RAPID METHOD FOR GENERATING AN ACCURATE INITIAL APPROXIMATION FOR THE ITERATIVE SOLUTION OF LINEAR SYSTEMS MICRO RESEARCH	EPPS, JR. BILL	N 06 14/02/89 \$49,800	NELSON 89-NM-299	
APPLIED LINEAR ALGEBRA	UHLIG FRANK	N 24 21/02/89 \$54,654	NELSON 89-NM-321	

TITLE	TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVEC	STATUS	PROGRAM MANAGER	INITIATE START DATE	TOT AMT
COMPUTATIONAL METHODS FOR PROBLEMS IN AERODYNAMICS USING PARALLEL AND VECTOR ARCHITECTURES	GOTTLIEB	BROWN UNIVERSITY	CAVIO	N 36 03/03/89 \$612,663	NELSON 89-NM-338			
HIGH PERFORMANCE HYPERCUBE-BASED NETWORK TOPOLOGIES	EL-AMAWY	LOUISIANA STATE UNIVERSITY	AHMED	N 24 03/03/89 \$109,087	NELSON 89-NM-341			
CALCULATING SHARP SHOCKS WITH SOBOLEV GRADIENTS	NEUBERGER	UNIV OF NORTH TEXAS	JOHN	N 36 03/03/89 \$165,645	NELSON 89-NM-342			
NEW METHODS FOR NUMERICAL SOLUTION OF ONE CLASS OF STRONGLY NONLINEAR PARTIAL DIFFERENTIAL EQUATIONS WITH APPLICATIONS	VLAIMIR	EMORY UNIVERSITY	OLIKER	R 24 03/03/89 \$388,032	NELSON 89-NM-343			
PRECONDITIONING TECHNIQUES FOR ADVANCED SCIENTIFIC COMPUTING	PASCIAK	BROOKHAVEN NATIONAL LABORATORY	JOSEPH	N 36 03/03/89 \$184,463	NELSON 89-NM-347			
PERIOD-MULTIPLYING AND PERIODIC OSCILLATIONS IN SURFACE TENSION DRIVEN FLOWS IN A CYLINDRICAL LIQUID BRIDGE OF A LOW PEANUTIL # FLUID	NICHOLAS	STATE UNIVERSITY OF NEW YORK	KAZARINGOFF	N 24 13/03/89 \$70,360	NELSON 89-NM-354			
NUMERICAL METHOD FOR SOLVING WAVE SCATTERING PROBLEMS FOR SMALL BODIES OF ARBITRARY SHAPES	RAMM	KANSAS STATE UNIVERSITY	ALEXANDER	N 36 15/03/89 \$185,635	NELSON 89-NM-360			
STABILITY ANALY. OF FINITE DIFFERENCE APPROXIMATIONS TO HYPERBOLIC SYSTEMS, & PRBL. IN APPLIED & COMPUTAT. MATRIX & OPERATOR THEORY	MARCLS	UNIV OF CALIFORNIA	PARVIN	R 12 20/03/89 \$104,213	NELSON 89-NM-372			
DIRECTION IN MATRIX THEORY	UHLIG	AUBURN UNIVERSITY	FRANK	N 12 20/03/89 \$36,920	NELSON 89-NM-374	D		

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INSTITUTION			RECEIVED ACCOUNT	PROPOSAL #	START DATE	START DATE
THE MATHEMATICAL SCIENCES: STATUS AND FUTURE DIRECTIONS			N 15	A	\$20,000	YCT ANT
NATIONAL ACADEMY OF SCIENCES	COX	LAWRENCE	28/03/89 \$300,000	NELSON	01/06/89	
PARALLEL MATRIX COMPUTATIONS			N 12		\$20,000	
UNIV OF MARYLAND	STEWART G.		29/03/89 \$104,876	NELSON	N	
SELECTIVE EDGE CYCLABILITY OF GRAPHS			N 12			
SOUTHERN ILLINOIS UNIVERSITY	ALORED	ROBERT	06/01/89 \$16,955	RANKIN		
ADJACENCY MATRIX RANK			N 24			
VANDERBILT UNIVERSITY	ELLINGHAM	PARK	06/01/89 \$32,351	RANKIN		
STOCHASTIC FLOWS ANALYSIS AND ALGORITHMS WITH APPLICATIONS TO SINGLE AND MULTI BASE AIRCREWS STAGING AND MANAGEMENT			N 24			
RUTGERS - THE STATE UNIVERSITY	AVI-ITZHAK	BENJAMIN	10/01/89 \$99,456	RANKIN	D	
INTELLIGENT DATA BASE MANAGEMENT SYSTEM			N 06			
KLEIN ASSOCIATES, INC.	KLEIN	GARY	03/01/89 \$61,592	WAKSMAN		
CONTINUOUS SPEECH RECOGNITION USING A SPECTRAL/PROSOIC SPEECH- EASIS-VECTOR DICTIONARY			N 06			
VISTA RESEARCH CORPORATION	CALDWELL J.		03/01/89 \$50,000	WAKSMAN		
AUTOMATED OPERATIONS FOR THE SUPPORT OF LARGE MILITARY ORGANIZATIONS			N 36			
UNIV OF VIRGINIA	PAPANTONI-KAZAKOS F.		03/01/89 \$271,091	WAKSMAN	D	
STRUCTURED NEURAL NETWORK APPROACH TO STATISTICAL ANALYSIS OF DIFFICULT PROBLEMS			N 06			
VISTA RESEARCH CORPORATION	CALDWELL J.		04/01/89 \$50,000	WAKSMAN		
			89-NM-175			

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FAULT TOLERANCE FOR VLSI NETWORKS COLD EMISSION UNIVERSITY	TOIDA	N 12 06/01/89 \$89,960	WAKSMAN J	
DEVELOPMENT OF A SCIENTIFIC COMPUTER LANGUAGE FOR DISTRIBUTE COMPUTING APPLICATIONS CREARE INC. RESEARCH & DEVELOPMENT INC	MATTHEW	N 06 06/01/89 \$49,417	WAKSMAN B9-NM-197	
SOFTWARE REVERSE ENGINEERING UNIV OF PENNSYLVANIA	PRYNES	R 12 07/01/89 \$113,992	WAKSMAN A 15/03/89	\$113,992
PRIOR KNOWLEDGE IN IMAGE PROCESSING SCIENTIFIC SYSTEMS INC.	MAHMOOD	N 06 12/01/89 \$59,513	WAKSMAN B9-NM-207	\$59,513
REVERSE ENGINEERING AND REUSING SOFTWARE SYSTEM ANALYSIS, DESIGN & ASSESSMENT	NEIGHBORS	N 06 13/01/89 \$48,600	WAKSMAN B9-NM-213	\$48,600
IMPLEMENTING MASKELL ON RISC ARCHITECTURES SCIENTIFIC COMPUTING ASSOCIATES INC	BERNET	N 06 13/01/89 \$56,339	WAKSMAN B9-NM-215	\$56,339
PERFECT MEMORY MARTINGALE RESEARCH CORPORATION	ROBERT	N 06 17/01/89 \$49,907	WAKSMAN B9-NM-219	\$49,907
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE RSC INC	SUMMERS	N 06 17/01/89 \$49,986,957	WAKSMAN B9-NM-220	\$49,986,957
OPPORTUNISTIC OR GREEDY KNOWLEDGE-BASED SYSTEMS APPLIED COMPUTATIONAL INTELL.	MAZLACK	N 06 17/01/89 \$4,996,000	WAKSMAN B9-NM-222	\$4,996,000
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					AMOUNT	TCT AMT
LEARNING COMPUTERS AND MACHINE TRANSLATIONS			N 06 17/01/89 \$50,000	WAKSMAN		
THE HOUSE OF A. G.	GORALSKI	ANTHONY			89-NM-223	
THE FORMAL DEFINITION OF AN INHERENTLY UNAMBIGUOUS DESIGN			N 36 18/01/89 \$192,114	WAKSMAN		
METACOLOGY	COOKE	CARL			A	
UNIV OF TEXAS					89-NM-230	
FAULT TOLERANT PARALLEL COMPUTING IN ORTHOGONAL SHARED MEMORY ANC			N 36 24/01/89 \$469,026	WAKSMAN		
RELATED ARCHITECTURES	JHA	MIRAJ			D	
PRINCETON UNIVERSITY	CLYMER	JOHN			89-NM-244	
ADAPTIVE REASONING IN CYBERNETIC SYSTEMS USING RULE-BASED EXPERT			N 36 24/01/89 \$339,455	WAKSMAN		
SYSTEMS WITH FUZZY OBJECTS & RULES	HOJCIK	ZBIGNIEW			89-NM-245	
CALIFORNIA STATE UNIVERSITY, FULLERTON	CLYMER	JOHN				
A DISTRIBUTIVE LEARNING-DRIVEN ARCHITECTURE			N 12 02/02/89 \$63,193	WAKSMAN		
WICHITA STATE UNIVERSITY	HOJCIK	ZBIGNIEW			D	
PARALLEL DISTRIBUTED SEMANTIC NETWORKS FOR NATURAL LANGUAGE			N 36 02/02/89 \$502,658	WAKSMAN		
PROCESSING	DYER	MICHAEL			89-NM-263	
UNIV OF CALIFORNIA	RISHE	NAPHTALI				
EFFICIENT ALGORITHMS, DATA STRUCTURES, AND ARCHITECTURES FOR			N 36 02/02/89 \$250,475	WAKSMAN		
PARALLEL SEMANTIC DATABASE MANAGEMENT	AGGARWAL	J.			89-NM-264	
FLORIDA INTERNATIONAL UNIVERSITY	RISHE	NAPHTALI				
FUSION OF MULTIPLE SENSING MODALITIES FOR MACHINE VISION			N 36 02/02/89 \$347,100	WAKSMAN		
UNIV OF TEXAS	AGGARWAL	J.			89-NM-267	
FAULT-TOLERANT DISTRIBUTED SYSTEMS BASED ON BROADCAST			N 24 06/02/89 \$172,727	WAKSMAN		
COMMUNICATION	MELLIAH-SMITH	F. LLIAR			99-NM-270	
UNIV OF CALIFORNIA						

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TITLE (CONT.)		AMOUNT	PROPOSAL #			
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE "FORMAL VERIFICATION OF ORDER AND TIMING PROPERTIES OF ADA PROGRAMS	DAVID GUASFARI	N 06 08/02/89 \$61,435	WAKSMAN			
ODYSSEY RESEARCH ASSOCIATES						89-NP-274
REQUIREMENTS DEFINITION LANGUAGES	GARY KINCAID	N 06 08/02/89 \$50,000	WAKSMAN			
SYSTEMS & SECURITY TECHNOLOGY						89-NM-277
DYNAMICS CONSTRAINT-NETWORKS	JUDEA PEARL	N 12 10/02/89 \$79,585	WAKSMAN			
UNIV OF CALIFORNIA						89-NP-281
FUGEM: A NEW APPROACH TO SOLIC MODELING FOR CAD/CAM	ABDO HUSSEINY	N 06 10/02/89 \$45,923	WAKSMAN			
TECHNOLOGY INTERNATIONAL, INC.						89-NM-293
PROGRAM ANALYSIS FOR OBJECT-CENTERED PROGRAMMING ENVIRONMENTS	ROBERT FILMAN	N 06 10/02/89 \$5C,000	WAKSMAN			
INTELLI CORP INC						89-NP-234
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE	JAMES HOOK	N 06 13/02/89 \$53,147	WAKSMAN			
ODYSSEY RESEARCH ASSOCIATES						89-NM-290
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: FOVEAL MACHINE VISION SYSTEMS	CESAR BANDERA	N 06 13/02/89 \$59,180	WAKSMAN			
AMHERST SYSTEMS, INC.						89-NP-291
A GENERALIZED TOOL FOR GENETIC ALGORITHM RESEARCH	ALAN AUSTIN	N 06 14/02/89 \$69,800	WAKSMAN			
AUSTIN & FAMILY						89-NM-293
AUTOMATED DIAGNOSTIC EQUIPMENT FOR DISTRIBUTED SYSTEMS	L. LUMPKIN	N 06 14/02/89 \$49,589	WAKSMAN			
VANCE SYSTEMS, INC.						89-NP-295

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MODEL-BASED INTELLIGENT CONTROLLER	MID-SOUTH ENGINEERING	KARSAI GABOR	N 06 \$50,000	14/02/89 150,000	WAKSMAN	89-NP-296			
FEASIBILITY OF A THREE-DIMENSIONAL VARIATIONAL GEOMETRY SOFTWARE ENGINE BASED ON THE GRAPH TRAVERSAL METHOD CONNEX CCP	JOHAR	SANDEEP	N 06 \$50,000	14/02/89 150,000	WAKSMAN	89-NP-297			
A NOVEL APPROACH TO DESIGN OF A HIGH SPEED VITERBIS DECODER	ACCOLINK CORP	JALAL	N 06 \$50,000	14/02/89 150,000	WAKSMAN	89-NP-298			
AN ARTIFICIAL INTELLIGENCE APPROACH TO SOFTWARE RELIABILITY USING DIMENSIONAL ANALYSIS	CSTEEN	RICHARD	N 06 \$40,187	14/02/89 89-NP-300	WAKSMAN				
COMPUTERIZED SPEECH EVALUATION	SPECOM	CARSY JOHN	N 06 \$46,290	14/02/89 89-NM-301	WAKSMAN				
OPTIMAL SYSTEM SYNTHESIZER FOR BOTH FIXED AND ADAPTIVE SYSTEMS	AMTECH CORP.	HAAS WILLIAM	N 06 \$45,911	15/02/89 847,660	WAKSMAN	89-NM-303			
FEASIBILITY TEST OF AN IMAGE PROCESSING SYSTEM FOR ANALYSIS OF PHOTOGRAPHS FOR TERRESTRIAL FEATURES	LAWSON VIDEOGRAPHIC, INC.	LAWSON RAYMOND	N 06 \$47,660	15/02/89 39-NP-308	WAKSMAN				
ASSURING SOFTWARE SECURITY/RELIABILITY	COMPUTER HUMANWARE INTERNATIONAL	KOERNER FRANK	N 06 \$49,954	15/02/89 849,954	WAKSMAN	89-NM-310			
KILO-NODE PARALLEL PROCESSOR	SYRACUSE APPLIED REASONING	SCHLERTET F.	N 06 \$50,000	15/02/89 89-NP-311	WAKSMAN				

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AN INTELLIGENT EVENT-DRIVEN PROCESS CONTROLLER ARCHITECTURE		RICHARD MATEJKA	N 06 15/02/89 \$45,995	WAKSMAN 89-NM-312	
AN OBJECT ORIENTED TASK PLANNER FOR REBOT PROGRAMMING		BRIAN MITCHELL	N 06 15/02/89 \$49,566	WAKSMAN 89-NM-313	
FULLY RECONFIGURABLE COPROCESSOR FOR USE IN PARALLEL COMPUTERS		STEVEN CASSELMAN	N 06 15/02/89 \$50,000	WAKSMAN 89-NM-317	
THE IMAGINATION WORKS		JUZER MOGRI	N 06 15/02/89 \$63,390	WAKSMAN 89-NM-319	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE		ZOHAR MANNA	N 06 21/02/89 \$366,289	WAKSMAN 89-NM-323	
REDUCTIVE COMPUTER PROGRAMMING		JACOBUS CHARLES	N 06 28/02/89 \$49,118	WAKSMAN 89-NM-330	
STANFORD UNIVERSITY		STREETER GORDON	N 06 28/02/89 \$48,246	WAKSMAN 89-NM-331	
COMBINING ARTIFICIAL INTELLIGENCE AND OBJECT-ORIENTED APPROACHES IN CONTROL SYSTEM DEVELOPMENT	GENERAL DIGITAL INDUSTRIES, INC.	JURY PAUL	N 06 28/02/89 \$46,000	WAKSMAN 89-NM-332	
MOBILE AUTONOMOUS ROBOTIC SYSTEM (MARS).		WARD ALLEN	N 06 28/02/89 \$65,000	WAKSMAN 89-NM-333	
DISTRIBUTED REAL-TIME OPERATING SYSTEM WITH TASK MIGRATION					
EXTENDING A C DESIGN "COMPILER" TO THE FEATLRE-BASED DOMAIN					
AUTOPATION RESEARCH					

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FAST TURNAROUND DIGITAL INSTRUMENTATION		FEREGRINE ENGINEERING	MICHAEL GRIFFIN	N 06 28/02/89 \$57,143	WAKSMAN 89-NP-334		
SUPPORT FOR THE INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE		CARNEGIE-MELLON UNIVERSITY	Z SEGALL	N 06 09/03/89 \$10,000	WAKSMAN 89-NP-352	\$10,000 15/04/89 \$10,000	
RETRIEVAL USING PLAUSIBLE INFERENCE		UNIV OF MASSACHUSETTS	K CROFT	N 24 15/03/89 \$199,275	WAKSMAN 89-NH-359		
CASE-BASED REASONING IN ENGINEERING DESIGN A RESEARCH PROPOSAL		CARNEGIE-MELLON UNIVERSITY	KATIA SYCARA	N 36 15/03/89 \$821,653	WAKSMAN 89-NP-361	\$100,000 01/07/89 \$500,000	
MEMORY-BASED EXPERT SYSTEMS		NORTHWESTERN UNIVERSITY	ROGER SCHANK	R 36 15/03/89 \$966,540	WAKSMAN 89-NP-363	\$54,000 01/06/89 \$651,000	
QUERY OPTIMIZATION AND PLANNING IN OBJECT-ORIENTED KNOWLEDGE BASES		RUTGERS - THE STATE UNIVERSITY (CENRG)	PHILLIP SMEU	N 24 15/03/89 \$88,999	WAKSMAN 89-NP-364		
MODELING THE DESIGN AND EVOLUTION OF SOFTWARE		KESTREL INSTITUTE	GREEN CORDELL	R 12 15/03/89 \$169,515	WAKSMAN 89-NP-365		
COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND RESOURCES		NATIONAL ACADEMY OF SCIENCES	MILLIMENTHAL MARJORY	N 18 24/03/89 \$60,000	WAKSMAN 89-NP-375	\$0 01/07/89 \$60,000	
PERCEPTUAL STRUCTURE AND SHAPE FROM TEXTURE		UNIV OF ILLINOIS	AMUJA NARENDRAN	R 24 29/03/89 \$3,474,048	WAKSMAN 89-NM-396		

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EXPLOITING GESTALT LAWS FOR LEARNING APPROACHES IN COMPUTER VISION WICHITA STATE UNIVERSITY	KOJCIK ZBIGNIEW	N	29/03/89 \$111,015		WAKSMAN 89-NM-397	
RESEARCH OF PROGRAMMING LANGUAGES AND SOFTWARE ENGINEERING UNIV OF MARYLAND	BASILLI VICTOR	R	29/03/89 \$217,992	12	WAKSMAN 89-NM-398	
REPLICA CONTROL ALGORITHMS IN DISTRIBUTED DATABASES GEORGE MASON UNIVERSITY	JAJO CIA SUSMIL	N	29/03/89 \$257,880	36	WAKSMAN 89-NM-399	
MASSIVELY-PARALLEL COMPUTATIONAL FLUID DYNAMICS UNIV OF MICHIGAN	CALAMAI DONALD	N	29/03/89 \$74,000	12	WAKSMAN 89-NM-400	
THE APPLICATION OF TABU SEARCH AND OTHER ARTIFICIAL INTELLIGENCE SEARCHING METHODS TO A CLASS OF SCHEDULING PROBLEMS UNIV OF TEXAS	BARNES J.	N	29/03/89 \$115,309	24	WAKSMAN 89-NM-401	
VIEW-INDEPENDENT REPRESENTATION AND RECOGNITION OF 2-D OBJECTS WAYNE STATE UNIVERSITY	LEU JIA-GUU	N	29/03/89 \$64,326	12	WAKSMAN 89-NM-404	
RESOURCE DISCOVERY IN A MASSIVE DISTRIBUTED ENVIRONMENT: ALGORITHMIC COMPONENTS UNIV OF COLORADO	SCHWARTZ MICHAEL	N	29/03/99 \$105,921	24	WAKSMAN 89-NM-405	
FAST MASSIVE COMPUTATIONS ON DATA SEQUENCES PURDUE UNIVERSITY	ATALLAH PIKHAIL	N	29/C3/89 \$394,009	36	WAKSMAN 89-NM-407	
IMAGE RECONSTRUCTION FROM NONUNIFORM SAMPLES ILLINOIS INSTITUTE OF TECHNOLOGY	MARVASTI FAROKH	N	17/01/89 \$38,106	36 0	WOODRUFF 89-NM-226	

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				N	18/01/89	13,608 01/07/89 \$51,650
THE ESTIMATICA OF THE POINT OF INCIPENT CETERIORATION AND A CLASS OF LIFE DISTRIBUTION WITH APPLICATION TO CANNIBALLIZATION UNIV OF TEXAS	WOODRUFF 89-NM-231	36 \$52,621	A			

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MICROWAVE INTERACTION WITH PLASMAS UNIV OF TENNESSEE	IGOR ALEXEFF	N 36 19/01/89 \$233,622	A BARKER 89-NP-042	\$75,309 01/05/89 \$233,622
ELECTROMAGNETIC-WAVE PROPAGATION IN UNMAGNETIZED PLASMAS HUGHES RESEARCH LABORATORIES	JOSEPH SANTCRU	N 24 19/01/89 \$445,85C	A BARKER 89-NP-045	\$101,538 01/05/89 \$449,850
STUDY OF PARTICLE TRANSPORT IN PLASMA TURBULENCE TEXAS TECH UNIVERSITY	OSAMU ISHIHARA	R 12 31/01/89 \$27,408	A BARKER 89-NP-066	\$27,408 15/06/89 \$27,408
LIGHTWEIGHT, HIGH POWER, MILLIMETER MICROWAVE SOURCE SCIENCE RESEARCH LABORATORY	BRIX			
INVESTIGATION AND DEVELOPMENT OF THE TTO SCANTRON MISSION RESEARCH	DANIEL MOSTROM	N 12 31/01/89 \$49,945	BARKER 89-NP-070	
LOW COST ELECTRON BEAM DEVICE UNIVERSAL ENERGY SYSTEMS INC	ERIK BUCK	N 12 02/02/89 \$45,990	BARKER 89-NP-075	
HIGH POWER, TUNABLE, MM-WAVE PLASMA-FILLED DIELECTRIC CHERENKOV MASER IRVINE SCIENCE ASSOCIATES	WESSEL	N 12 02/02/89 \$49,925	BARKER 89-NP-076	
HIGH POWER, TUNABLE, MM-WAVE PLASMA CHERENKOV MASER IRVINE SCIENCE ASSOCIATES	FRANK WESSEL	N 12 02/02/89 \$49,993	BARKER 89-NP-077	
RELATIVISTIC KLYSTRON DEVELOPMENT MISSICY RESEARCH	GERALD KIUTTU	N 12 02/02/89 \$45,477	BARKER 89-NP-078	

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TCT AMT
ELECTRON-BEAM-DRIVEN, COMPACT AND HIGH-POWER NEAR MILLIMETER WAVE SOURCE: HYBRIC ORBITRON MASER AMERICAN RESEARCH CORP OF VIRGINIA NIIMURA	MASSANOBU	N 12 02/02/89 \$49,414	BARKER 89-NP-080	
DIVEX (DIPOLE PLASMA MICROWAVE EXPERIMENT) MISSION RESEARCH CORP	FRANCENBURG JOHN	N 12 03/C2/89 \$148,407	BARKER 89-NP-082	
NOVEL ELECTRON-BEAM-DRIVEN DEVICES FOR THE GENERATION OR AMPLIFICATION OF MILLIMETER-WAVE RADIATION PHYSICAL OPTICS CORPORATION PQK	JOHN	N 12 13/02/89 \$49,488	BARKER 89-NP-101	
NOVEL MILLIMETER-WAVE SOURCE BASED ON THE BLT DEVICE INTEGRATED APPLIED PHYSICS (IAP), INC.	KIRKMAN GEORGE	N 12 15/02/89 \$50,000	BARKER 89-NP-111	
NRPC: A NEAR-RELATIVISTIC PLASMA CERENKOV RADIATION SOURCE KRALL ASSOCIATES	KRALL NICHCLAS	N 12 17/02/89 \$49,749	BARKER 89-NP-120	
MICROWAVE PRODUCTION USING A MULTIPACTOR ELECTRON SOURCE GENESIS RESEARCH	OWENS THOMAS	N 12 17/02/89 \$5C.000	BARKER 89-NP-121	
LASER DRIVEN PHOTOEMISSION TO GENERATE HIGH INTENSITY PULSED ELECTRON SOURCE AT 1.3 GHz REPETITION RATE EXCEL TECHNOLOGY INC.	RAO RAMA	N 12 17/02/89 \$50,000	BARKER 89-NP-122	
CHARGE CLUSTER GENERATION OF MILLIMETER WAVES ALPHA LAB	LEE WILLIAM	N 12 17/02/89 \$44,299	BARKER 89-NP-123	
GIGATRON - A NOVEL MILLIMETER-WAVE ELECTRON TUBE ACCELERATOR TECHNOLOGY CORP.	ARNOLD IT YOUNG IN	N 12 17/02/89 \$5C.000	BARKER 89-NP-127	

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MILLIMETER-WAVE GENERATION FROM RIPPLED-FIELD VIRTUAL CATHODE OSCILLATOR/AMPLIFIER EM APPLICATIONS CO.	WOO MEE-YOUNG	N 12 17/02/89 \$48,229	BARKER	89-NP-128
A COMPACT, HIGH-POWER SOURCE OF MILLIMETER AND SUBMILLIMETER WAVES PHYSICS & ENGINEERING RESEARCH	AMIR AVNER	N 12 17/02/85 \$49,922	BARKER	89-NP-129
EXPERIMENTAL AND THEORETICAL INVESTIGATION OF RF ABSORPTION AND REFLECTION FROM PREFORMED PLASMAS UNIV OF MARYLAND	DESTLER WILLIAM	N 36 27/02/89 \$355,918	BARKER	89-NP-135
CIELECTRIC OR PLASMA DIAGNOSTICS USING OPEN-ENDED WAVEGUIDES LNIV OF MISSOURI MOSTAFAVI	PASQUO	N 24 03/03/89 \$65,129	BARKER	89-NP-139
MICROWAVE INTERACTIONS WITH PLASMAS SRI INTERNATIONAL ECKSTROM	CONRAD	N 24 13/03/89 \$299,906	BARKER	89-NP-140
EXPERIMENTAL AND THEORETICAL STUDIES OF HIGH POWER, PLASMA-FILLED BACKWARD WAVE OSCILLATORS UNIV OF MARYLAND	DESTLER WILLIAM	N 36 13/03/89 \$642,493	BARKER	89-NP-142
A TWO-STREAM ELECTRON MICROWAVE SOURCE FOR HIGH POWER MILLIMETER WAVE GENERATION APPLIED MICROWAVE PLASMA CONCEPTS	GUEST GARETH	N 24 17/03/89 \$495,000	BARKER	89-NP-146
A JOINT INDUSTRY-UNIVERSITY PROGRAM FOR COMPUTATIONAL PLASMA RESEARCH MISSION RESEARCH CORP	GOOPEN ERUCE	R 36 30/03/89 \$449,979	BARKER	\$37,000 01/04/89 \$449,979
EXCITATION OF NUCLEI BY ANTIPROTON ANNIHILATION AT REST PENNSYLVANIA STATE UNIVERSITY	SMITH GERALD	R 24 05/01/89 \$203,609	KELLEY	\$32,873 01/05/89 \$33,200

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THEORETICAL STUDY OF ATOMIC PROCESSES LOUISIANA STATE UNIVERSITY	RAYAL	N 36 11/01/89 \$129,113	KELLEY 89-NP-038	
PROPOSAL FOR TRANSITION STATE SPECTROSCOPY AND DYNAMICS OF HALF-COLLISION REACTIVE SCATTERING AEROSPACE CORPORATION	SWARAJ	N 48 17/01/89 \$421,342	KELLEY 89-NP-039	
RADIATIVE PROCESSES IN COLLISIONS OF LOW-ENERGY ELECTRONS WITH ATOMIC SYSTEMS UNIV OF CALIFORNIA	JACK SYAGE	N 24 24/01/89 \$106,989	KELLEY 89-NP-048	
PHOTIONIZATION OF EXCITED ATOMIC STATES AND RADIATIVE RECOMBINATIONS CN CALCULATIONS UNIV OF TORONTO	ROBERT GOULD	N 24 21/01/89 \$52,052	KELLEY 89-NP-051	
SUPPORT FOR THE SIXTEENTH INTERNATIONAL CONFERENCE ON THE PHYSICS OF ELECTRONIC AND ATOMIC COLLISIONS CITY COLLEGE - CUNY	THEODOSIU C.	N 12 02/02/89 \$13,000	A KELLEY 89-NP-071	\$13,000 01/07/89 \$13,000
HIGH-RESOLUTION LASER SPECTROSCOPY OF DIATOMIC MOLECULES: HALF-COLLISIONS AND RYDBERG STATE STRUCTURE YALE UNIVERSITY	LUBELL MICHAEL EYLER EDWARD	N 36 02/02/89 \$265,585	KELLEY 89-NP-074	
A LOW COST TRANSPORTABLE RAMAN SPECTROMETER EIC LABORATORIES INC	CARRABBA MICHAEL	N 12 08/02/89 \$55,960	KELLEY 89-NP-092	
MOLECULAR EXCITED STATES IN ELECTRIC FIELDS SRI INTERNATIONAL	KACHRU RAVINDRA	N 36 13/02/89 \$362,101	KELLEY 89-NP-102	
HALF COLLISIONS INVOLVING AUTOIONIZING STATES SRI INTERNATIONAL	A. PEET HICKMAN	N 36 15/02/89 \$408,574	KELLEY 89-NP-116	

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						TOT AMT
CIOOE LASER BASED RAMAN LIGHT SCATTERING SPECTROMETER		RICHARD VAN HAELEN	N 12 17/02/89 \$50,000	KELLEY	89-NP-124	
ALSTON INSTRUMENTS						
NEUTRAL ATOM INTERFEROMETRY			N 12 17/02/89 \$50,000	KELLEY	89-NP-125	
CLAUSER, J.F., & ASSOCITES	CLAUSERE	JOHN MEYERHOFF	N 12 17/02/89 \$376,245	KELLEY	89-NP-131	
HALF-COLLISIONAL PROCESSES DURING HIGH INTENSITY LASER-MOLECULE INTERACTIONS		DAVID	N 36 17/02/89 \$274,944	KELLEY	89-NP-132	
UNIV OF ROCHESTER	EBERLY	J.	N 36 17/02/89 \$3,300	KELLEY	89-NP-134	
AB INITIO WAVE FUNCTIONS FOR ATOMS AND MOLECULES IN INTENSE FIELDS			N 36 17/02/89 \$184,373	KELLEY	89-NP-141	
UNIV OF ROCHESTER	HERZENBERG	A.	N 36 17/03/89 \$90,385	KELLEY	89-NP-144	
SUPPORT FOR A CONFERENCE ON ELECTRON-MOLECULE SCATTERING AND PHOTOCIONIZATION		YEH KAIN	N 36 17/03/89 \$25,000	KELLEY	89-NP-147	
YALE UNIVERSITY	HO	WARREN	N 24 16/03/89 \$204,793	KELLEY	89-NP-149	
INTERACTIONS OF POSITRONS AND POSITRONIUM WITH ATOMS			N 24 16/03/89 \$25,000	KELLEY	89-NP-149	
LOUISIANA STATE UNIVERSITY						
A CANDIDATE SEARCH FOR THE DESIGN OF A NEW, SHORT WAVELENGTH, TUNABLE ATOMIC LASER		PERGER				
PICHIGAN TECHNOLOGICAL UNIVERSITY	TEMKIN	AARON				
PROJECTION OPERATOR CALCULATION OF THE WIDTH AND SHIFT OF [HE(-)(2SC(2.1S))**]						
NASA - GODDARD SPACE FLIGHT CENTER						
FREQUENCY SHIFTS AND WIDTHS IN ATOMIC VAPORS: EXPLICATING THE SELECTIVE REFLECTION TECHNIQUE		MARTPANN	N 24 24/03/89 \$204,793	KELLEY	89-NP-149	
COLUMBIA UNIVERSITY	SVEN					

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TITLE (CONT.)				
INSTITUTION				
IONIZATION OF ATOMS IN STRONG LASER FIELDS		N 12 28/03/89 \$139,066	KELLEY	89-NP-151
UNIV OF OREGON	CRASEMAN	BERND		
ATTOJOULE METER				
POTOMAS SYNERGETIC INC. (PSI)	CORCORAN	V.	N 12 10/02/89 \$42,176	PERRIZO 89-NP-095
REMOTE, HAND-HELD, LASER VIBRATION DETECTOR	FITZPATRICK	GERALD	N 12 15/02/89 \$49,912	PERRIZO 89-NP-118
PHYSICAL RESEARCH, INC.				
DEVELOPMENT OF MULTI-ENVIRONMENT SCANNING TUNNELING MICROSCOPY FOR USE WITH VACUUM ANALYTICAL TECHNIQUES	MCCORMICK	LARRY	N 12 17/02/89 \$49,905	PERRIZO 89-NP-130
J. AND D. SCIENTIFIC, INC.				
NUCLEAR AND SPACE RADIATION EFFECTS ON ANALOG AND DIGITAL SUPERCONDUCTING DEVICES AND CIRCUITS	CINES	EUGENE	N 25 23/02/89 \$2,659,292	PERRIZO 89-NP-135
ADVANCED PHYSICS APPLICATIONS CO.				
AN IMPROVED GALILEAN SEARCH FOR A FIFTH-FORCE CORRECTION TO GRAVITY	FAIRBANK, JR.	WILLIAM	N 36 23/03/89 \$189,005	PERRIZO 89-NP-148
COLORADO STATE UNIVERSITY				
INFRARED ASTRONOMY				
XONTECH INC (FORMERLY XONICS INC)	PAY	THEODORE	N 12 08/02/89 \$48,763	RADOSKI 89-NP-091
CHARACTERIZATION OF COSMIC INFRARED VARIABLE SOURCES				
UNIV OF MINNESOTA	JONES	TERRY	N 36 02/03/89 \$124,981	RADOSKI 89-NP-139
MAGNETO-OPTICAL PROPERTIES IN POLYCRYSTALLINE FERROMAGNETIC CXIDE FILMS	WIGEN	PHILLIP	N 36 03/01/89 \$639,091	SCHLOSSBER 89-NP-021
OHIO STATE UNIVERSITY				

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WORKSHOP ON III-V INTEGRATED OPTOELECTRONICS	DAGENAY (U. MD)	N 03/01/89 \$7,500	A SCHLOSSBER 89-NP-032	\$7,500 01/03/89
HIGH VOLUME TUNED CAVITY FABRICATION	PEARSON	N 04/01/89 \$35,910	SCHLOSSBER 39-NP-033	
THE NINTH INTERNATIONAL CONFERENCE ON VACUUM ULTRAVIOLET RADIATION PHYSICS (VUV9) UNIV OF HAWAII	FADLEY	N 06/01/89 \$10,000	A SCHLOSSBER 89-NP-036	\$10,000 01/04/89
VISIBLE AND NEAR ULTRA-VIOLET SPECTRA OF SPECIALLY DUCED OPTICAL FIBERS	MORSE	N 11/01/89 \$32,000	SCHLOSSBER 39-NP-037	
ULTRAFAST X-RAY SOURCES	FALCONE	N 18/01/89 \$652,191	A SCHLOSSBER 89-NP-040	\$652,191
STUDY OF VUV AND XUV LASER SPECTROSCOPY	EDEN	N 18/01/89 \$36,000	SCHLOSSBER 89-NP-041	
AN ELECTRON BEAM SOURCE FOR NOVEL GENERATORS OF ELECTROMAGNETIC RADIATION	JONES	N 18/01/89 \$600,000	A SCHLOSSBER 89-NP-043	\$600,000 15/05/89
LASER-SEMICONDUCTOR INTERACTIONS	BRUECK	R 23/01/89 \$468,095	A SCHLOSSBER 89-NP-046	\$468,095 15/04/89
DISTRIBUTED NONLINEAR DEVICES FOR MILLIMETER-WAVE AND PICOSECOND-P ULSE GENERATION	RODWEIL	N 25/01/89 \$378,604	A SCHLOSSBER 89-NP-049	\$378,604 01/05/89
				\$192,000 \$469,095 \$378,604

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RESEARCH ON FUNDAMENTAL ASPECTS OF DIAMOND CHEMICAL VAPOR	NAVAL RESEARCH LABORATORY	JAMES BUTLER	N 36 \$342,506	SCHLOSSBER 89-NP-050	
MEASUREMENT OF ULTRASHORT PULSES OF LIGHT TO INVESTIGATE POSSIBLE SPACETIME QUANTIZATION	DEPT OF ENERGY OFFICE OF ENERGY RESEARCH	DAVID GOODWIN	N 12 27/01/89 \$90,790	D SCHLOSSBER 89-NP-052	
KINETIC PROCESSES IN BLUE-GREEN MERCURY HALIDE LASERS	HOWARD UNIVERSITY	SPENCER MICHAEL	N 36 27/01/89 \$342,506	SCHLOSSBER 89-NP-053	
ADVANCED LASER-CHEMICAL PROCESSING FOR MICROELECTRONICS AND INTEGRATED OPTICS	COLUMBIA UNIVERSITY	RICHARD CSGCDO	R 36 30/01/89 \$1,655,000	A SCHLOSSBER 89-NP-054	\$57,100 15/06/89
ENERGY SELECTIVE DIGITAL RADIOGRAPHY OF FOSSILS	CORNELL UNIVERSITY	JOHN CISNE	N 24 30/01/89 \$174,098	C SCHLOSSBER 89-NP-055	\$1,454,920
SPECTROSCOPIC CHARACTERIZATION OF THE OPTICAL & LASING PROPERTIES OF GROUP I-III-V(2), (LI,NA,K) INSE(2) CRYSTALS	NORFOLK STATE COLLEGE	GEORGE MILLER	N 36 30/01/89 \$316,612	SCHLOSSBER 89-NP-056	
DEVELOPMENT OF A MODE-LOCKED Ti:SAPPHIRE LASER	SCHMIDTZ ELECTRO-OPTICS INC.	DAVID WELFCORD	N 06 31/01/89 \$49,471	A SCHLOSSBER 89-NP-067	\$49,471
A MICROWAVE NOISE AND S-PARAMETER ANALYZER FOR MMIC PROCESS DIAGNOSTICS	METRI WAVE INC.	WILLIAMS LYMAN	N 12 31/01/89 \$50,000	SCHLOSSBER 89-NP-068	
MAGNETIC BEARING FOR A SCANNING OPTICAL MIRROR ASSEMBLY	SATTCON TECHNOLOGY CORPORATION	RICHARD HOCKNEY	N 12 31/01/89 \$49,977	SCHLOSSBER 89-NP-069	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
DIAMOND DEPOSITION RESEARCH		N 06 03/02/89 \$50,000	A SCHLOSSBER 89-NP-031	\$50,000 01/02/89 \$50,000
NAVAL RESEARCH LABORATORY	BUTLER JAMES	N 06 03/02/89 \$50,000	A SCHLOSSBER 89-NP-031	\$19,762 01/02/89 \$18,762
FUTURE DIRECTIONS FOR LASERS IN MEDICINE AND SURGERY		N 08/02/89 \$10,762	A SCHLOSSBER 89-NP-035	
UNITED ENGINEERING TRUSTEES INC	WAYNANT RONALD	N 08/02/89 \$47,571	A SCHLOSSBER 89-NP-038	
FIBER OPTIC LASER VIBRATION SENSOR		N 08/02/89 \$47,571	A SCHLOSSBER 89-NP-038	
SUNOL SCIENCES CORP.	STUDY P	N 08/02/89 \$47,571	A SCHLOSSBER 89-NP-038	
FLASHLAMP-PUMPED DYE LASER AND CHRONCLITE		N 08/02/89 \$39,445	A SCHLOSSBER 89-NP-039	
QUANTIC INDUSTRIES, INC.	MCARIEL CLIN	N 08/02/89 \$36,935	A SCHLOSSBER 89-NP-030	
FLASHLAMP-PUMPED DYE LASER AND CHRONCLITE		N 08/02/89 \$36,935	A SCHLOSSBER 89-NP-030	
QUANTIC INDUSTRIES, INC.	PC DANIEL CLIN	N 08/02/89 \$36,935	A SCHLOSSBER 89-NP-030	
CARRIER DEPENDENCE OF THE OPTICAL CONSTANTS AND THE INTRINSIC ABSORPTION COEFFICIENT IN INGAAsP SEMICONDUCTOR DIODE LASERS	JENSEN E.	N 10/02/89 \$140,701	A SCHLOSSBER 89-NP-094	
UNIV OF LOWELL				
FUTURE DIRECTIONS FOR LASERS IN MEDICINE AND SURGERY		N 13/02/89 \$2,738	A SCHLOSSBER 89-NP-096	\$2,738 01/02/89 \$2,738
UNITED ENGINEERING TRUSTEES INC	WAYNANT RONALD	N 13/02/89 \$2,738	A SCHLOSSBER 89-NP-096	\$2,738 01/02/89 \$2,738
AUTOMATED INFRARED ELLIPSOMETRY FOR ACCURATE FILM OPTICAL CONSTANTS	J. A. WOOLLAM COMPANY	N 13/02/89 \$50,000	A SCHLOSSBER 89-NP-097	
DESIGN OF A PROTOTYPE SOFT X-RAY MACH-ZEHNDER INTERFEROMETER		N 13/02/89 \$50,000	A SCHLOSSBER 89-NP-098	
MULTILAYER OPTICS & X-RAY TECHNOLOGY INC	PETERSON BRYAN	N 13/02/89 \$50,000	A SCHLOSSBER 89-NP-098	

TITLE	TITLE (CONT.)	INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE START DATE	TOT AMT
ELECTRON-BEAM-ADDRESSED TERNARY-STATE LIQUID CRYSTAL SPATIAL LIGHT MODULATOR		CPTRCN SYSTEMS, INC	TSAKIRIS	N 12 13/02/89 \$55,980	A	SCHLOSSBER	89-NP-100	\$4,000 01/02/89 \$4,000	
FUTURE DIRECTIONS FOR LASERS IN MEDICINE AND SURGERY CONFERENCE		FOOD AND DRUG ADMINISTRATION	LANORY	ROBERT	N 08 13/02/89 \$4,000	SCHLOSSBER	89-NP-103		
REAL TIME OPTICAL CIRCLE DETECTION		HLL CORP.	ZHANG	YOU-MEN	N 12 15/02/89 \$50,000	SCHLOSSBER	89-NP-112		
3-DIMENSIONAL FULL COLOR VOLUMETRIC IMAGING DISPLAY		INSTRUMENT RESEARCH CO.	WITHEY	EDWARD	N 12 15/02/89 \$49,275	SCHLOSSBER	89-NP-113		
A PNEUMATICALLY-CONTROLLED OPTICAL INTERFEROMETER		SCE CCP	EWING	GALEN	N 12 15/02/89 \$49,055	SCHLOSSBER	89-NP-114		
NOVEL APPROACHES TO DYNAMIC LIGHT SCATTERING (DLS) AND LASER DOPPLER VELOCIMETRY (LDV)		CPTRCN INC.	CRARY	BRUCE	N 12 15/02/89 \$49,335	SCHLOSSBER	89-NP-115		
THE FREE ELECTRON CYCLOTRON LASER		ADVANCED SCIENCE & COMPUTER INNOVATIONS,	HSU	JANG-YU	N 12 15/02/89 \$50,000	SCHLOSSBER	89-NP-117		
11TH INTERNATIONAL FREE ELECTRON LASER CONFERENCE		INST. OF ELECTRICAL & ELEC. IONICS ENGRG	ELIAS (U CENTRAL FL)UIS		N 12 16/02/89 \$25,000	SCHLOSSBER	89-NP-119	\$10,000 01/06/89 \$10,000	
SEM X-RAY MICRO-TOMOGRAPHY		MACHINA TECHNOLOGIES, INC.	FISHBINE	ERIAN	N 12 17/02/89 \$45,944	SCHLOSSBER	89-NP-126		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
LOUISIANA STATE UNIVERSITY	TEMPLE COYLE	N 24 22/02/89 \$185,033	O SCHLOSSBER 89-NP-133	
A PULSED, HIGH POWER SOLID STATE LASER OPERATING AT MULTIGIGAHERTZ FREQUENCIES ENERGY COMPRESSION RESEARCH CORP.	ZUCKER CYED S.	N 12 14/03/89 \$230,499	SCHLOSSBER 89-NP-143	
DEVELOPMENT OF VUV AND XUV FELS USING A GAS IN THE WIGGLER STANFORD UNIVERSITY	PANTELL RICHARD	N 36 29/03/89 \$749,665	SCHLOSSBER 89-NP-153	
ELECTRON IMPACT IONIZATION AND ATTACHMENT STUDIES OF MOLECULES OF INTEREST TO THE PULSE POWER TECHNOLOGY JET PROPULSION LABORATORY	SRIVASTAVA SANTOSH	N 12 05/01/89 \$90,000	A SMITH 89-NP-034	\$90,000
A SEISMIC & INTEGRATED GEOPHYSICAL STUDY OF THE LITHOSPHERE CF THE COLORADO PLATEAU UNIV OF TEXAS	KELLER C.	N 21 18/01/89 \$329,546	A SMITH 89-NP-044	\$89,423 01/12/88 \$90,000
CRUSTAL DEFORMATION MEASUREMENTS IN THE VICINITY OF VANDERBERG AIR FORCE BASE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	KING ROBERT	N 12 23/01/89 \$235,000	A SMITH 89-NP-047	\$89,423 15/05/89 \$233,347
INVESTIGATION OF A RELATIVE MOTION MEASUREMENT CONCEPT APPLIED RESEARCH ASSOCIATES INC	FRANK ROBERT	N 12 30/01/89 \$50,362	A SMITH 89-NP-057	
NOVEL CLOSED-LOOP TECHNIQUE FOR SEISMIC DETECTION TEXAS RESEARCH INSTITUTE INC	SMITH R.	N 12 30/01/89 \$49,886	A SMITH 89-NP-058	
MAGNETIC REFLECTION OSCILLATOR, A HIGH POWER OUTPUT RF SOURCE TERRA CORPORATION	FLIZENDO JUAN	N 12 30/01/89 \$55,092	A SMITH 89-NP-059	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT	
				TITLE VECTOR FUNCTIONS FOR DESCRIBING SEISMIC PHENOMENA TRICLADYTE SOCIETY, INC.	COUNCIL FRANCIS
SEISMIC SPECTRAL SIGNATURE AT REGIONAL DISTANCES OF SIMULTANEOUS NUCLEAR EVENTS KTECH CORPORATION	GAFFNEY EDWARD	N 12 30/01/89 \$49,895	SMITH 89-NP-061		
FIBER OPTIC SEISMOMETER SYSTEM EDGEWISE SENSOR PRODUCTS	CAROPE EDWARD	N 12 30/01/89 \$50,000	SMITH 89-NP-062		
ULTRASENSITIVE FIBER OPTIC SEISMIC SENSOR TACAN CORPORATION	NELSON ARTHUR	N 12 30/01/89 \$49,276	SMITH 39-NP-063		
USE OF NONLINEAR SYSTEM IDENTIFICATION TECHNIQUES FOR IMPROVED SEISMIC DETECTION MULTISPEC CORPORATION	SHEBY DAVID	N 12 30/01/89 \$49,811	SMITH 89-NP-064		
MULTIVARIATE SIGNAL ANALYSIS NOVEL TECHNIQUES IN SEISMIC DETECTION TOR GEOPHYSICS CORPORATION	KON JOSEPH	N 12 30/01/89 \$49,995	SMITH 89-NP-065		
SOLID STATE SEISMIC SENSOR ANCO ENGINEERS INC	SOLIMEO THOMAS	N 12 02/02/89 \$49,397	SMITH 89-NP-072		
ULTRA-SENSITIVE TUNNELING PROBE SEISMOMETER PHYSICAL CYNAPIC INC	MACKAY BRUCE	N 12 02/02/89 \$52,867	SMITH 89-NP-073		
CRUSTAL DEFORMATION MEASUREMENTS IN THE VICINITY OF VANDENBERG AIR FORCE BASE MASSACHUSETTS INSTITUTE OF TECHNOLOGY	KING ROBERT	N 12 06/02/89 \$236,380	SMITH 99-NP-083	\$236,380 01/06/89 \$236,380	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CUST MOMENTUM FLUX GAGE TECH. REPS., INC.	ETHRIDGE NOEL	N 12 08/02/89 \$45,955	SMITH 89-NP-034	
A SUPERCONDUCTING GRAVIMETER/SEISMOMETER ALABAMA CRYOGENIC ENGINEERING, INC.	MCCOY JOHN	N 12 08/02/89 \$64,830	SMITH 89-NP-086	
THE PHYSICS OF HIGH POWER SEMICONDUCTOR SWITCHES POLYTECHNIC INSTITUTE OF NEW YORK	HENDRICKS KUNHARDT ERICH	N 36 08/02/89 \$343,877	SMITH 89-NP-093	
MULTIPLE REFLECTED PULSE ANALYSIS FOR DYNAMIC FRACTURE MONITORING SUNBURST RECOVERY, INC.	YOUNG THOMAS	N 12 13/02/89 \$49,875	SMITH 89-NP-099	
ELF MAGNETOMETER FOR EARTHQUAKE PREDICTION/ NUCLEAR TEST MONITORING INTEGRITY ELECTRONICS & RESEARCH, INC.	VALONE	N 12 15/02/89 \$49,651	SMITH 89-NP-104	
A NEW SEISMOMETER UTILIZING HIGH TEMPERATURE SUPERCONDUCTIVITY SUPERCONDUCTIVE TECHNOLOGIES, INC.	PIKE STEPHEN	N 12 15/02/89 \$48,649	SMITH 89-NP-105	
SEISMIC DETECTORS USING MAGNETIC SUSPENSION VIA HIGH TEMPERATURE SUPERCONDUCTORS PHYSICAL RESEARCH, INC.	FITZPATRICK GERALD	N 12 15/02/89 \$45,924	SMITH 89-NP-106	
LASER DIODE SEISMOMETER CPTRAC INC.	HERCER MICHAEL	N 12 15/02/89 \$49,364	SMITH 89-NP-107	

TITLE	TITLE (CONT.)	INVESTIGATOR	TYPE/MONTHS RECEIVED	STATUS	PROGRAM MANAGER	PROPOSAL #	INITIATE START DATE	START DATE	END AWT
SUPERCONDUCTING SEISMOMETERS	QUANTUM MAGNETICS, INC.	AVRIN	N 12 15/02/89 \$55,436	N 12 15/02/89 \$46,874	SMITH	89-NP-108			
NOVEL TECHNIQUES IN SEISMIC DETECTION	RADIX SYSTEMS, INC.	PULLI	JAY	N 12 15/02/89 \$49,950	SMITH	89-NP-109			
LONG RANGE HOLOGRAPHIC SEISMOMETER	METROLASER	TRCLINGER	JAMES	N 12 15/02/89 \$205,000	SMITH	89-NP-110			
DIAGNOSTICS AND MODELLING OF HC-) IONS SCLRCES	NANCY-1 UNIV (FRANCE) LAB DE PHYSIQUE	CACAL	PARTHE	N 28 02/03/89 \$2,08C,000	SMITH	89-NP-137	\$129,550 01/09/89 \$205,000		
INNOVATIVE SCIENCES TECHNICAL EXPERIMENTATION CENTER	EASTERN SPACE & MISSILE CENTER	KENNEDY	MIKE	N 07 17/03/89 \$2,08C,000	SMITH	99-NP-145	\$2,080,000 20/05/89 \$2,080,000		
INTERNATIONAL COLLABORATION ON NP8 ADVANCED RESEARCH AND DEVELOPMENT	DEPT OF ENERGY - ALBUQUERQUE OPER OFFICE	HARDEKOPF	ROBERT	N 06 27/03/89 \$300,000	SMITH	89-NP-150	\$300,000 27/03/89 \$300,000		
FORMATION & ENHANCEMENT OF HC-) IONS IN A MAGNETICALLY FILTERED MULTICUSP ION SOURCE MEASUREMENT OF NEUTRAL ATOMIC/MOLECULAR.....	LAWRENCE BERKELEY LABORATORY	LEUNG	KA-MGO	N 06 29/03/99 \$631,448	SMITH	89-NP-152	\$66,730 01/04/89 \$66,730		
HIGH POWER SWITCHING AND OTHER HIGH POWER DEVICES	ARMY RESEARCH OFFICE	GUNDERSEN	MARTIN	N 06 30/03/89 \$30,000	SMITH	89-NP-154	\$30,000 01/04/89 \$30,000		